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Prediction of the rejection of organic compounds (neutral and ionic) by nanofiltration and reverse osmosis membranes using neural networks

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Abstract−This work investigates the use of neural networks in modeling the rejection processes of organic compounds (neutral and ionic) by nanofiltration and reverse osmosis membranes. Three feed-forward neural network (NN) models, characterized by a similar structure (eleven neurons for NN1 and NN2 and twelve neurons for NN3 in the input layer, one hidden layer and one neuron in the output layer), are constructed with the aim of predicting the rejection of organic compounds (neutral and ionic). A set of 956 data points for NN1 and 701 data points for NN2 and NN3 were used to test the neural networks. 80%, 10%, and 10% of the total data were used, respectively, for the training, the validation, and the test of the three models. For the most promising neural network models, the predicted rejection values of the test dataset were compared to measured rejections values; good correlations were found (R= 0.9128 for NN1, R=0.9419 for NN2, and R=0.9527 for NN3). The root mean squared errors for the total dataset were 11.2430% for NN1, 9.0742% for NN2, and 8.2047% for NN3. Furthermore, the comparison between the predicted results and QSAR models shows that the neural network models gave far better.

Keywords: Nanofiltration, Reverse Osmosis, Organic Compounds, Rejection, Neural Networks, Modeling

INTRODUCTION

Nanofiltration (NF) and reverse osmosis (RO) provide medium to high rejections of organic compounds present as emerging contaminants (micropollutants) in water, namely endocrine disrupting compounds (EDCs), pharmaceutically active compounds (PhACs), and pesticides [1-5]. The presence of micropollutants has been identified in surface water bodies, sewage treatment plant effluents, and stages of drinking water treatment plants and even at trace-levels in finished drinking water [6-8]. The possible effects on human health and aquatic organisms, associated with the presence or consumption of water containing low concentrations of micropollutants, are documented in toxicology studies and remain as an unanswered question [9,10].

Fewer studies have examined micropollutant rejection as a function of the interactions between compounds and membrane surfaces [11-13]. In general, three major interactions primarily affecting solute-membrane rejection can be pointed out: steric hindrance (sieving effect), electrostatic repulsion (charge effect) and hydrophobic/adsorptive interactions [14,15]. These solute-membrane interactions are determined by organic compounds solute properties (e.g., molecular weight, molecular size (length and width), charge (determined accordingly to the acid dissociation constant pKa and the pH of the solution), diffusion coefficient and hydrophobicity (expressed by $\log k_{ow}$ values)), membrane properties (molecular weight cutoff (MWCO)/pore size, surface charge (zeta-potential), hydrophobicity (contact angle), surface morphology (roughness)) and operating conditions (pressure, flux, and recovery) and solution chemistry (pH, temperature, dissolved organic carbon (DOC), inorganic matrix and membrane fouling) [16].

Until recently, modeling of rejection by nanofiltration (NF) and reverse osmosis (RO) membranes of charged organic compounds was limited mainly to negatively charged compounds, and rejection was explained by mechanisms of electrostatic repulsion due to the negative charge of the membrane [3,11,17,18].

A simplified rejection model for charged organic compounds has been presented by [13]. The rejection of charged compounds is highly dependent on the charge of the membrane [19]. Verliefde et al. showed that if the membrane is negatively charged it will repel negatively charged compounds but will attract positively charged compounds, creating the effect of charge concentration polarization that will result in more transport and less rejection of positively charged compounds [13]. On the other hand, mechanistic models used to describe rejection of neutral organic-compounds are often represented by one molecular size predictor describing steric hindrance factors within a membrane pore [19].

Artificial neural networks (ANN) are an attractive alternative to the previous approach due to their high parallelism, robustness [20], and for their inherent ability to extract from experimental data the highly non-linear and complex relationships between the variables of the problem [21] without any detailed knowledge of the system [22].

A few studies have also applied ANN to the modeling of the rejection of organic compounds by NF and RO membranes. In 2008, Libotean et al. developed an artificial neural network model based on quantitative structure-property relations (QSPR), the model claims to predict organic compounds passage through reverse osmosis membranes considering simultaneous correlation of organic sol-

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utes (molecular descriptors) and membrane properties [23]. Quintanilla et al. evaluated in 2009 an ANN based on quantitative structure activity relationship (QSAR) to model the 161 rejections of 50 neutral organic compounds by six NF and nine RO membranes [19]. Quintanilla et al. performed a QSAR for modeling 106 rejections of 64 organic compounds (pharmaceuticals, endocrine disruptors, pesticides and other organic compounds) by polyamide nanofiltration (NF) membranes [24]. Shahmansouri and Bellona urbanized in 2013 a quantitative structure-property relationships (QSPRs) to predict 67 rejections of organic compounds by nanofiltration (NF270) membrane [25].

We have developed three feed-forward ANN models to predict the rejection of organic compounds (neutral and ionic) by NF and RO membranes.

2. Artificial Neural Network

Artificial neural network (ANN) is a computational framework that is inspired by biological neural systems. It consists of a number of interconnected simple processing units called artificial neurons. One of the most popular neural network paradigms applied to the modeling of a wide range of nonlinear systems, especially chemical and biological engineering processes, is the feed-forward back propagation neural network (FFNN) [26,27], which has been used throughout this paper with forecasting horizon and supervised learning.

The artificial neurons are arranged in layers (Fig. 1) wherein the input layer receives inputs (u_i) from the real world and each succeeding layer receives weighted outputs ($w_{ij} \cdot u_i$) from the preceding layer as its input resulting, therefore, in a feedforward artificial neural network (ANN), in which each input is fed forward to its succeeding layer where it is treated. The outputs of the last layer constitute the outputs to the real world [21]. In such a feed-forward ANN a neuron in a hidden or an output layer has two tasks:

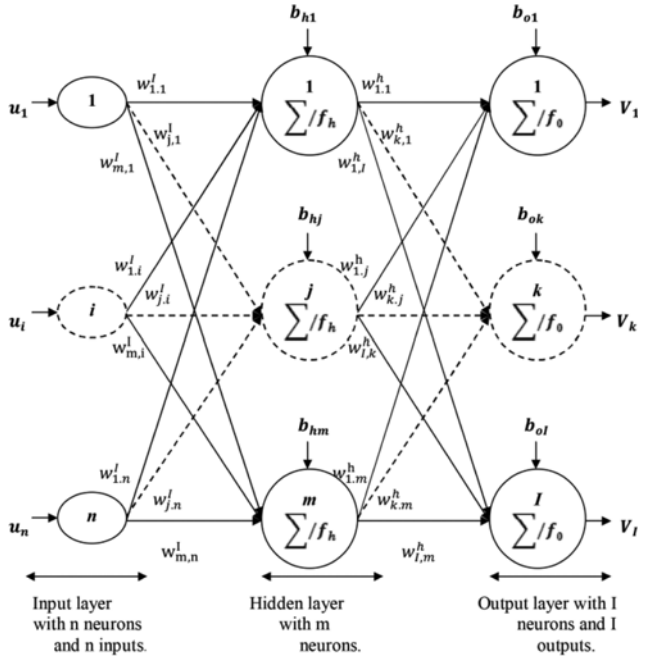


Fig. 1. Three-layer feed-forward neural network [21].

(a) It sums the weighted inputs from several connections plus a bias value and then applies a transfer function to the sum as given by Eq. (1) (for neuron j of the hidden layer):

$$z_j = f_h(\Sigma_{i=1}^{n} w_{ji}^{I} u_i + b_{hj});\ j=1, 2, \ldots, m \quad (1)$$

(b) It propagates the resulting value through outgoing connections to the neurons of the succeeding layer where it undergoes the same process as given by Eq. (2) (for instance outputs z_j of the hidden layer fed to neuron k of the output layer gives the output V_k):

$$V_k = f_0(\Sigma_{j=1}^{m} w_{kj}^{h} z_j + b_{0k});\ k=1, 2, \ldots, I \quad (2)$$

Combining Eqs. (1) and (2), the relation between the output V_k and the inputs u_i of the ANN is obtained:

$$V_k = f_0(\Sigma_{j=1}^{m} w_{kj}^{h} f_h(\Sigma_{i=1}^{n} w_{ji}^{I} u_i + b_{hj}) + b_{0k});\ k=1, 2, \ldots, I \quad (3)$$

The output is computed by means of a transfer function, also called activation function. It is desirable for the activation function to have a sort of step behavior. Furthermore, because continuity and derivability at all points are required features of the current optimization algorithms, typical activation functions which fulfill these requirements are [21]:

Hyperbolic tangent sigmoid transfer function (tansig):

$$f(a) = \frac{e^{a} - e^{-a}}{e^{a} + e^{-a}} \quad (4)$$

Logarithmic sigmoid transfer function (logsig):

$$f(a) = \frac{1}{1 + e^{-a}} \quad (5)$$

Pure linear transfer function (purelin):

$$f(a) = a \quad (6)$$

The number of neurons in the input and output layers is determined by the number of independent and dependent variables, respectively. The user defines the number of hidden layers and the number of neurons in each hidden layer. The model is developed by a process of training in which a set of experimental data of the independent variables are presented to the input layer of the network. The outputs from the output layer comprise a prediction of the dependent variables of the model. The network learns the relationships between the independent and dependent variables by iterative comparison of the predicted outputs and experimental outputs and subsequent adjustment of the weight matrix and bias vector of each layer by a back propagation training algorithm. Hence, the network develops an ANN model capable of predicting with acceptable accuracy the output variables lying within the model space defined by the training set. Consequently, the objective of ANN modeling is to minimize the prediction errors on the validation data presented to the network after completion of the training step [21].

3. Modeling Procedure

We used a procedure based on the design and optimization of the architecture of neural network as described in Fig. 2.

3-1. Database Collection, Division, and Reduction

We used data available in the literature [3,4,12,13,18,19,24,28-46]. The total database collected from the literature was divided

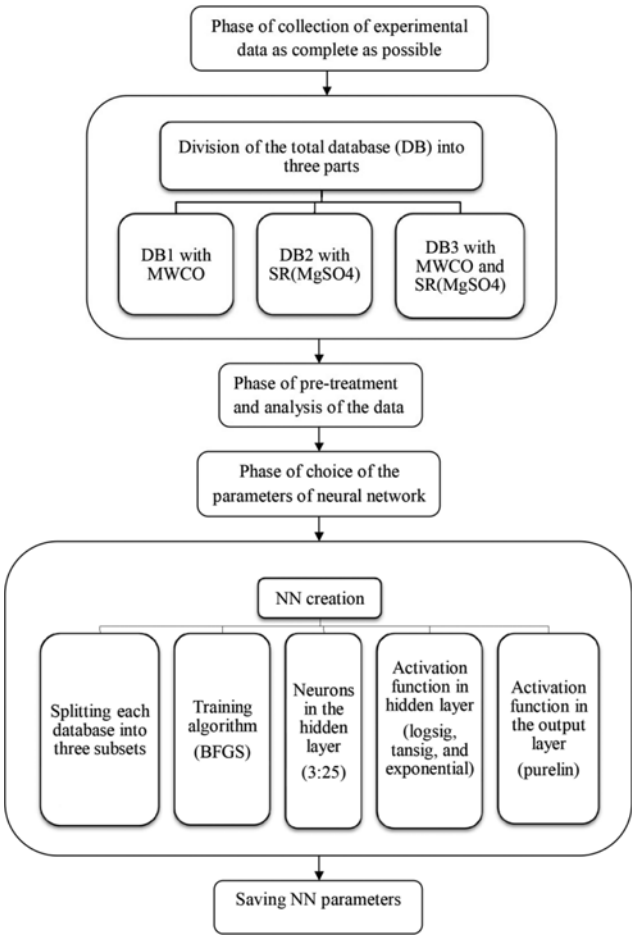


Fig. 2. Procedure of the design and optimization of the architecture of neural network.

Table 1. Database size and number of organic compounds used in this work

Database (DB)	Neural Network (NN)	Database size	Number of organic compounds
DB1	NN1	965	82
DB2	NN2	701	81
DB3	NN3	701	81

into three parts and can be accessed in Supplementary data A. the database size and the number of organic compounds are shown in Table 1.

The list of the 82 organic compounds (neutral and ionic) including pharmaceuticals, endocrine disrupting compounds, pesticides, alcohols, phenols and solvents are listed in Supplementary data B.

Table 3. The inputs and the output considered for neural network models development (NN1, NN2 and NN3)

	NN1	NN2	NN3
Inputs	- MW - Log D - Dipole - Length - Eqwidth - MWCO - Zeta potential - Contact angle - pH - Pressure - Recovery	- MW - Log D - Dipole - Length - Eqwidth - SR ($MgSO_4$) - Zeta potential - Contact angle - pH - Pressure - Recovery	- MW - Log D - Dipole - Length - Eqwidth - MWCO - SR ($MgSO_4$) - Zeta potential - Contact angle - pH - Pressure - Recovery
Output	Rejection	Rejection	Rejection

The choice of the input and output variables was based on interactions between organic compounds properties, membrane characteristics and filtration operating conditions for the rejection of organic compounds by RO/NF membranes. The inputs considered in this work are compound descriptors ($logK_{ow}$, logD, dipole moment, molecular weight, molecular length, molecular width, molecular depth, and equivalent molecular width), membrane characteristics (molecular weight cut-off (MWCO), magnesium sulfate salt rejection (SR ($MgSO_4$)), surface membrane charge (as zeta potential), and membrane hydrophobicity (as contact angle)), and operating conditions (pH, pressure, and recovery).

Based on $logK_{ow}$, the compounds were classified as hydrophilic (HL) or hydrophobic (HB). Compounds with $logK_{ow} \geq 2$ were classified as hydrophobic; and those with $logK_{ow} < 2$ were classified as hydrophilic [19].

The values of $logK_{ow}$, logD, and dipole moment were obtained either from the literature or computed by software (see Table 2).

The values of equivalent molecular width (eqwidth) were obtained from the literature or calculated by the following equation [47].

$$\text{eqwidth} = \sqrt{\text{molecular width} * \text{molecular depth}} \quad (7)$$

The total number of variables (organic compounds properties, membrane characteristics and operating conditions) was reduced by using a correlation matrix which can be accessed as Supplementary data C.

3-2. Model Development

For each database (DB1, DB2, and DB3), a NN model was devel-

Table 2. Software used for computing $logK_{ow}$, logD, and dipole moment

	Software
$logK_{ow}$	Kowwin, epa http://www.epa.gov/oppt/exposure/pubs/episuite.htm (accessed January 2013)
logD	Chemspider http://www.chemspider.com (accessed January 2013)
Dipole moment	ChemBio Ultra
	HperChem

Table 4. Statistical analysis of inputs and output

	DB1		DB2		DB3	
	STD	Mean	STD	Mean	STD	Mean
MW (g/mole)	56.2123	228.7852	58.1541	221.1318	58.1541	221.1318
logD	1.9107	1.1666	1.8702	1.0073	1.8702	1.0073
Dipole (debye)	1.9680	2.9373	1.8202	2.8387	1.8202	2.8387
Length (nm)	0.2660	1.1803	0.2919	1.1967	0.2919	1.1967
Eqwidth (nm)	0.1246	0.6706	0.1164	0.6908	0.1164	0.6908
MWCO (Dalton)	73.6627	228.5042	-	-	48.1371	212.4108
SR ($MgSO_4$)	-	-	0.0112	0.9792	0.0112	0.9792
Zeta potential (mv)	23.3559	−26.3868	9.8060	−18.5498	9.8060	−18.5498
Contact angle (°)	12.9343	49.0953	8.7305	47.8201	8.7305	47.8201
pH	1.0963	7.3252	1.1150	7.2793	1.1150	7.2793
Pressure (KPa)	887.3774	1150.0833	952.7402	1310.8683	952.7402	1310.8683
Recovery (%)	30.4319	30.4271	28.4831	22.3930	28.4831	22.3930
Rejection (%)	27.5432	74.5900	26.9982	74.9394	26.9982	74.9394

oped and a set of input and output variables was identified (Table 3). The values of the standard deviations (STD) and mean for the input and output data are shown in Table 4.

The samples were randomly split into three subsets: 80% for training phase, 10% for validation phase, and 10% for test phase. The training algorithm used in this work is the BFGS quasi-Newton (*trainbfg*). Each NN contains three layers of neurons or nodes: one input layer with eleven neurons for NN1 and NN2 and twelve neurons for NN3 in the input layer, one hidden layer with a number of active neurons optimized during training, and one output layer with one unit that generated the estimated value of rejection (R). The number of hidden neurons varied from 3 to 25 neurons. The tangent sigmoid (tansig), the log sigmoid (logsig), and the exponential transfer functions were used in the hidden layer. The purelinear (purelin) transfer function was used in the output layer.

The ANN modeling of the rejection of neutral and ionic organic compounds by NF and RO membranes was performed using STATISTICA.

RESULTS AND DISCUSSION

For each database (DB1, DB2, and DB3) the samples were randomly split into three subsets: 80% for training phase, 10% for validation phase, and 10% for test phase. Table 5 shows the structure of the optimized NN models.

According to the previous discussion, three neural network models were developed with the aim of predicting the rejection of organic compounds by NF/RO membranes. The plot and the parameters of the linear regression were, straightforwardly, obtained using the MATLAB function "***postreg***". Fig. 3 shows the total agreement plots for the rejections with agreement vectors approaching the ideal, [α, β, R]=[0.8407, 11.8426, 0.9128] for NN1; [α, β, R]=[0.8731, 9.5688, 0.9419] for NN2 and [α, β, R]=[0.9050, 7.2802, 0.9527] for NN3.

The performance of each model was evaluated in terms of correlation coefficient (R) and root mean squared error (RMSE). RMSE was used to determine the modeling error between the modeled and measured values of responses. RMSE is defined as follows [48-52]:

$$\mathrm{RMSE}=\sqrt{\frac{\sum_{i=1}^{n}(Y_{i,exp}-Y_{i,cal})^2}{n}} \tag{8}$$

where n is the total number of data points; $Y_{i,exp}$ is the experimental value and $Y_{i,cal}$ represents the calculated value from the neural network model or QSAR model.

Table 6 shows the vectors of linear regression for the three neural models (NN1, NN2, and NN3). This table shows the parameters of the least favorable regression in NN1. Clearly, the proposed neuronal approach gives satisfactory results with regression vector values approaching the ideal [i.e., α=1 (slope), β=0 (y intercept), R=1 (correlation coefficient)] in the adjustment of the profiles of NN1, NN2, and NN3.

1. Rejection of Organic Compounds as a Function of pH

The experimental and calculated rejection values of the selected organic compounds (positively charged, neutral, but also negatively

Table 5. Structures of the optimized NN models

NN models	Training algorithm	Input layer	Hidden layer		Output layer	
		Neurons number	Neurons number	Activation function	Neurons number	Activation function
NN1	BFGS quasi-Newton (*trainbfg*)	11	15	Tansig	1	Purelin
NN2	BFGS quasi-Newton (*trainbfg*)	11	24	Tansig	1	Purelin
NN3	BFGS quasi-Newton (*trainbfg*)	12	24	Tansig	1	Purelin

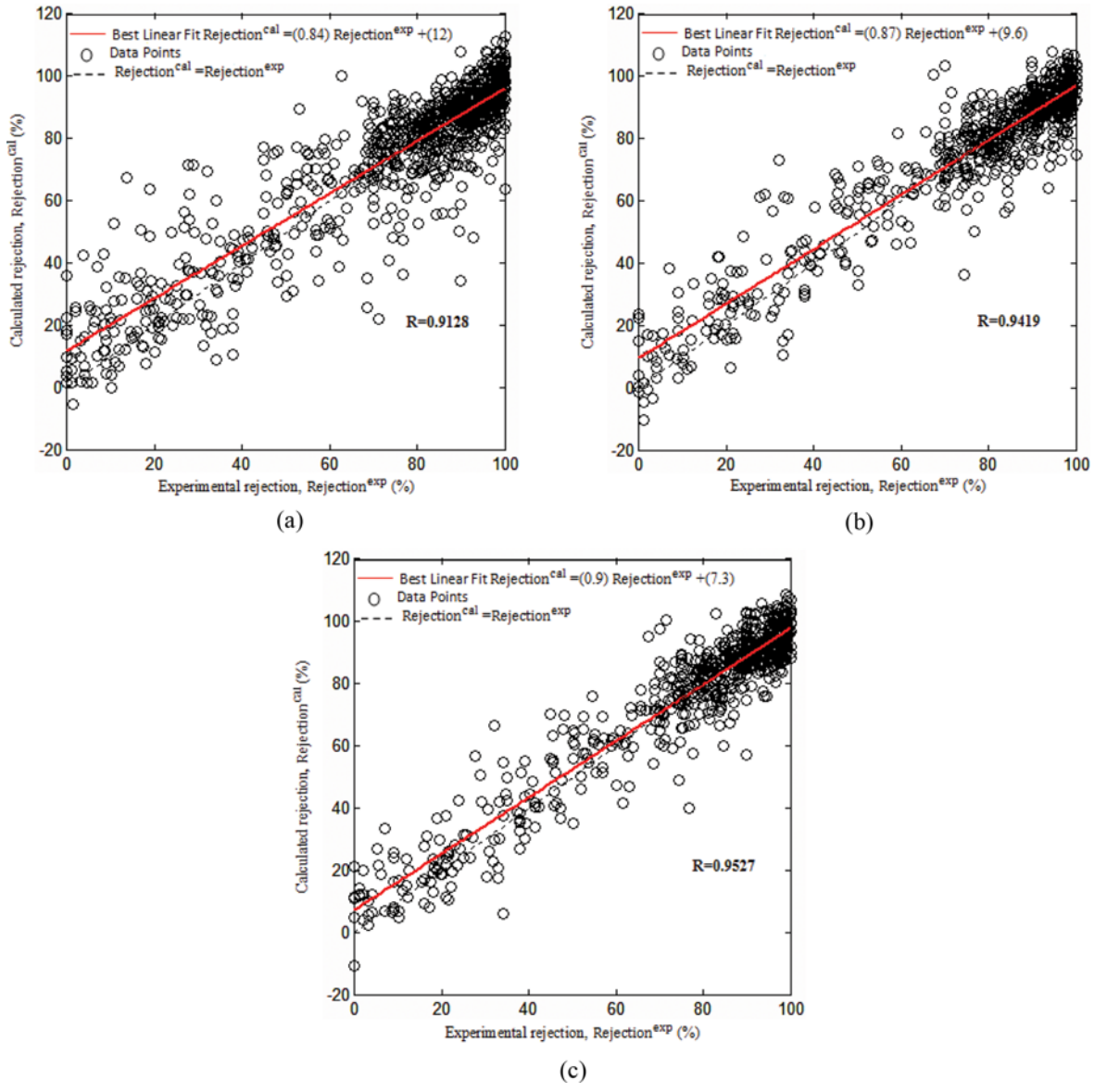


Fig. 3. Comparison of experimental and calculated values for the whole data set: (a) NN1, (b) NN2, (c) NN3.

Table 6. Linear regression vectors [linear equation: $y^{cal}=\alpha y^{exp}+\beta$, with α=slope, β=y intercept, R=correlation coefficient] and RMSE (Roots Mean Squared Error)

		α	β	R	RMSE
NN1	Training phase	0.8515	10.9695	0.9214	10.7808
	Validation phase	0.7484	18.2583	0.8451	14.2107
	Test phase	0.8384	13.1733	0.9043	11.5299
	Total	0.8407	11.8426	0.9128	11.2430
NN2	Training phase	0.8865	8.3836	0.9448	8.8558
	Validation phase	0.8522	11.4167	0.8964	9.6501
	Test phase	0.8024	15.9668	0.9512	10.1455
	Total	0.8731	9.5688	0.9419	9.0742
NN3	Training phase	0.8141	15.0969	0.9549	8.0246
	Validation phase	0.8754	10.3062	0.9107	8.9305
	Test phase	0.9050	7.2802	0.9594	8.8490
	Total	0.9169	6.2129	0.9527	8.2047

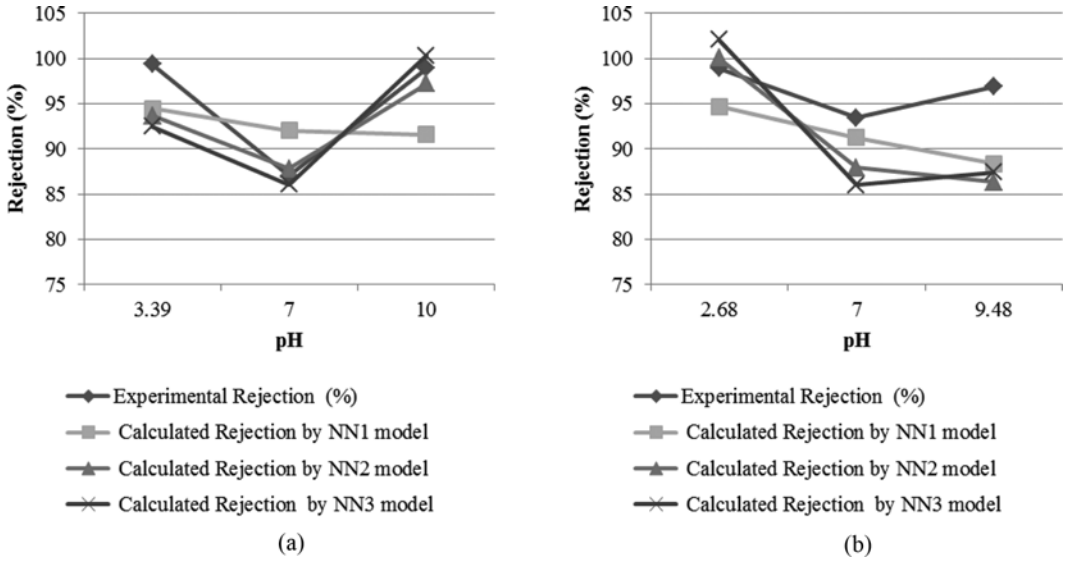


Fig. 4. Comparison of the experimental and calculated rejection of the positively charged (basic) organic compounds as a function of feed water pH with Trisep TS80 (Clenbuterol, (a)) and Desal HL (Salbutamol, (b)) for each models (NN1, NN2, NN3).

charged) at different pH are shown in Fig. 4, 5, and 6 for both Trisep TS80 and Desal HL membranes, and for each models (NN1, NN2, and NN3).

The calculated rejection values are in accordance with the experimental rejection values for the positively charged organic compounds (Clenbuterol, and Salbutamol) (Fig. 4); these results are interpreted as that there is a good validation for the NN models. At pH 10, the calculated rejection values are somewhat distant from the experimental rejection values for Salbutamol, because there is an acceptable validation for NN models. The rejection values for all basic organic compounds at neutral pH (7) are low for Trisep TS80 and Desal HL membranes because at pH 7; all organic compounds are also positively charged, but both membranes become negatively charged. Therefore, the electrostatic repulsion changes into electrostatic attraction [13]. At a pH of 10, the membrane is more negatively charged than at pH 7, but most basic organic compounds are neutral instead of positively charged at this pH. Therefore, no electrostatic interactions between membrane and organic compounds should be occurring at pH 10, but still the rejection is higher than at pH 7 [13].

The calculated rejection values are in consensus with the experimental rejection values for the neutral organic compounds (Cyclophosphamide, and Pentoxifylline) (Fig. 5); the rejection values of all organic compounds are relatively high (≥90%) for both membranes. These results are interpreted as that there is a great validation for the NN models. For the neutral organic compounds, the pH has almost no effect on rejection; all calculated and experimental rejection values are relatively constant within the whole pH-range

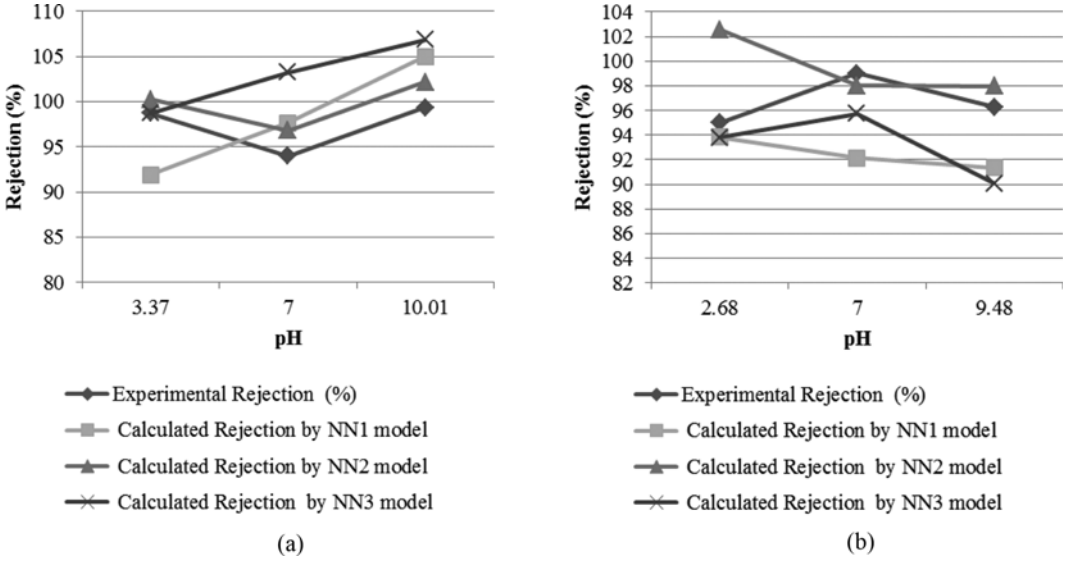


Fig. 5. Comparison of the experimental and calculated rejection of the neutral organic compounds as a function of feed water pH with Trisep TS80 (Cyclophosphamide, (a)) and Desal HL (Pentoxifylline, (b)) for each models (NN1, NN2, NN3).

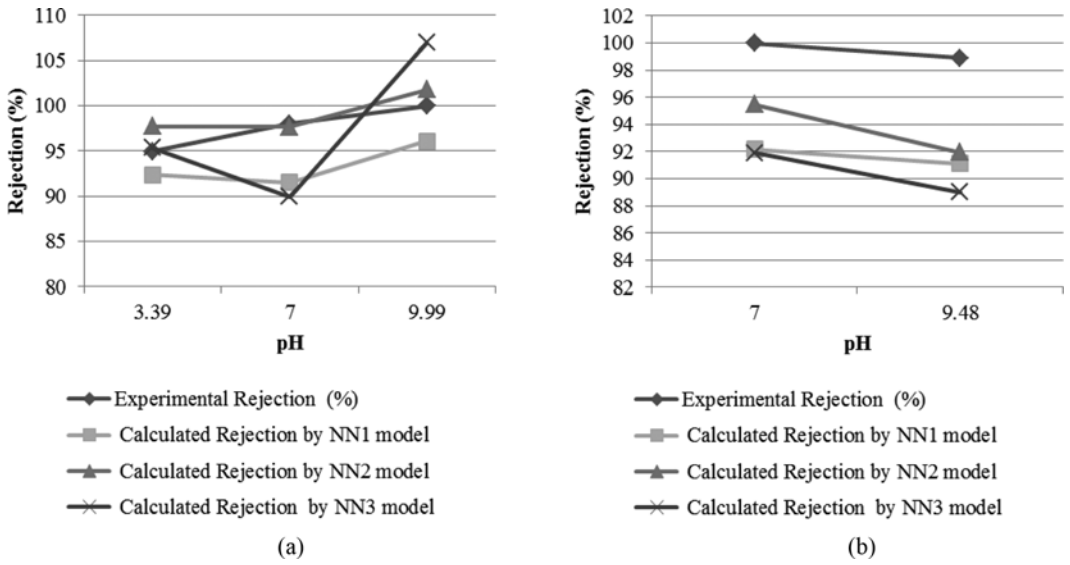


Fig. 6. Comparison of the experimental and calculated rejection of the negatively (acidic)organic compounds as a function of feed water pH with Trisep TS80 (Clofibric acid, (a)) and Desal HL (Fenoprofen, (b)) for each models (NN1, NN2, NN3).

tested [13].

The calculated rejection values are in accordance with the experimental rejection values for the negatively charged organic compounds (Clofibric acid, and Fenoprofen) (Fig. 6); these results are interpreted as that there is an excellent validation for the NN models. The rejection values for all acidic organic compounds at neutral and high pH (7 and 10) are high, due to electrostatic repulsion between the negatively charged organic compounds and the negatively charged membrane surface [13]. At lower pH (pH<7), the membranes become neutral (or even positively charged), and the dissociated, negatively charged (acidic) organic compounds regain their proton and become neutral. Therefore, no electrostatic repulsion exists anymore and the rejection of the organic compounds is only determined by steric hindrance and hydrophobic interactions between the organic compounds and the membrane [13].

For both membranes the rejection values for positively charged organic compounds are lower than the rejection values for neutral organic compounds, which are in turn lower than the rejection values for negatively charged organic compounds. This was explained by electrostatic interactions between the solutes and the membrane surface: for negatively charged solutes, charge repulsion exists between the solutes and the negatively charged membrane surface. For neutral solutes, no charge interactions with the membrane surface exist, but for positively charged solutes, the charges promote charge attraction [13].

The results of NN models are in harmony with the answer of Verliefde et al. [13]; the NN models can be used to predict their rejection of neutral and ionic organic compounds at a wide range of pH.

SENSITIVITY ANALYSIS

The contribution of the input variables (MW, logD, length, Eqwidth, MWCO, SR, contact angle, Zeta potential, pH, pressure, and recovery) on the output was determined by a sensitivity analysis using

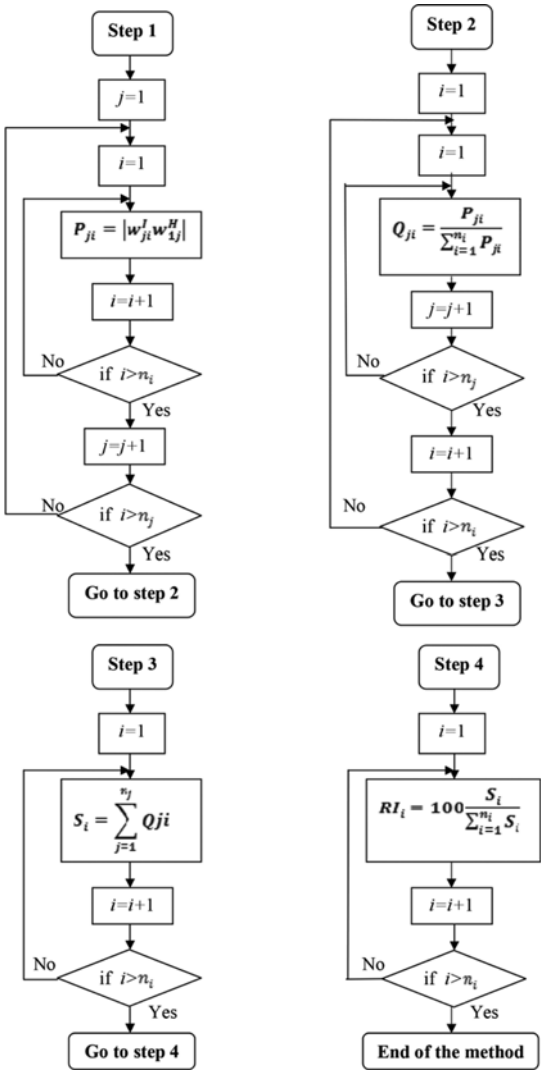


Fig. 7. Flowchart of the "weight" method [52].

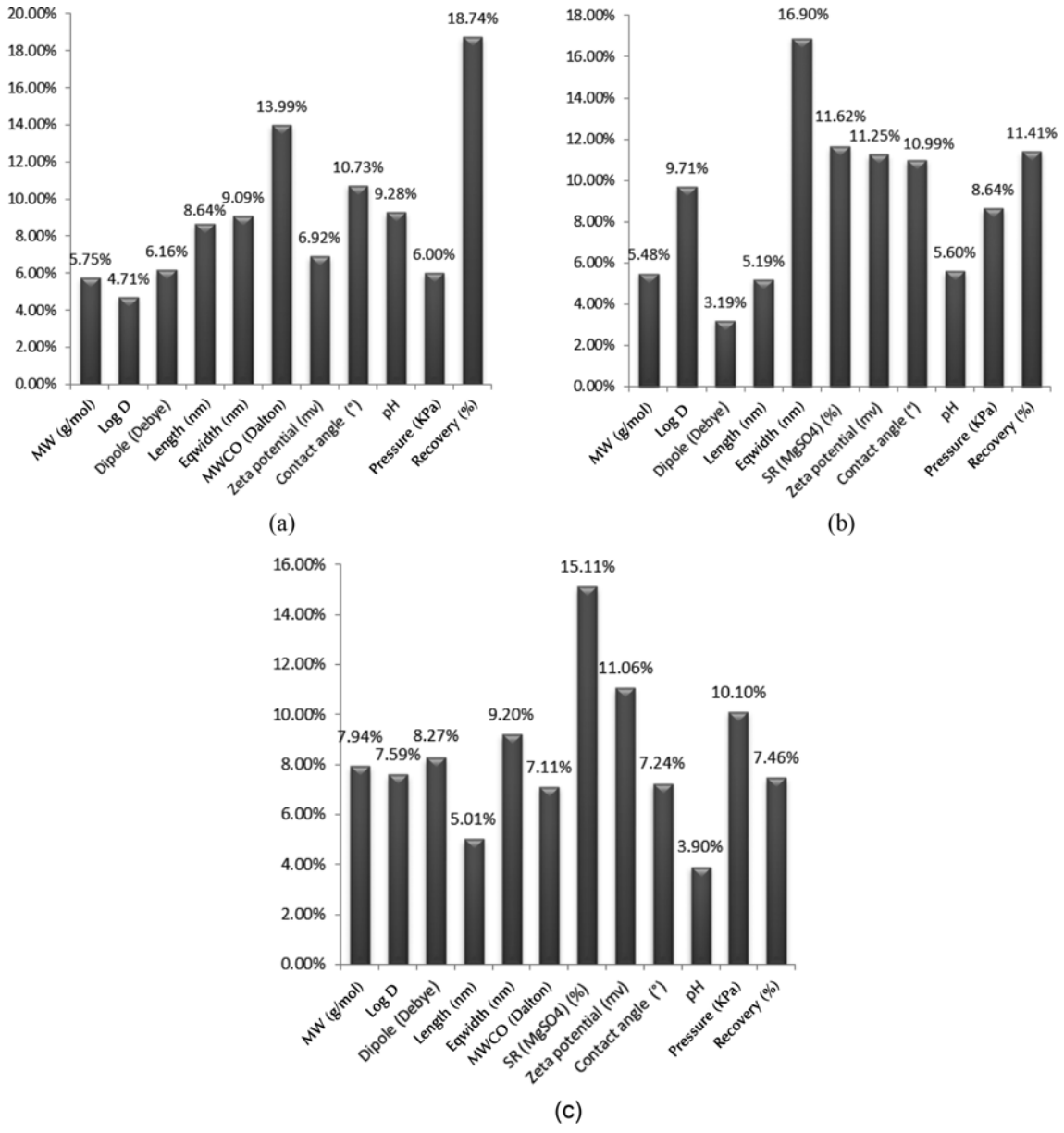


Fig. 8. Relative importance (RI) Histograms: (a) NN1, (b) NN2, (c) NN3.

the "Weight" method and thus for each neural network (NN1, NN2, and NN3).

This method, proposed initially by Garson [53]. and repeated by Goh [54], provides a quantification of the relative importance (RI) of the inputs on the output of neural network [55]. It is based on the partitioning of connection weights to [52].

- Connection weights of input - hidden;
- Connection weights of hidden - output.

The process of the "Weight" method is composed of four steps which are depicted in Fig. 7.

The contribution results are shown in Fig. 8. The most important variables that may influence the rejection of organic compounds (neutral and ionic) by NF/RO membranes are (i) recovery, MWCO, contact angle, pH, eqwidth, length, Zeta potential, dipole, pressure, MW, and logD for NN1; (ii) eqwidth, SR ($MgSO_4$), recovery, Zeta potential, contact angle, logD, pressure, pH, MW, length, and dipole for NN2, and (iii) SR ($MgSO_4$), Zeta potential, pressure, eqwidth, dipole, MW, logD, recovery, contact angle, MWCO, length, and pH for NN3.

From Fig. 8(c), it is evident that the steric/size MWCO is less appropriate than steric/size SR ($MgSO_4$) for predicting the rejection (RI (MWCO)=7.11% and RI (SR ($MgSO_4$))=15.11%). Thus, it is simpler to characterize a membrane in terms of the parameter steric/size salt rejection SR ($MgSO_4$) rather than MWCO. These results are in accordance with the findings of Yangali-Quintanilla and co-workers [19,24].

COMPARISON WITH QSAR MODELS

To establish the developed NN models as a plausible alternative

Table 7. Comparison of the NN models and the three QSAR models developed by Yangali-Quintanill and co-authors

		Models with SR ($MgoSO_4$)			Models with MWCO		Models with SR ($MgSO_4$) and MWCO
		First QSAR model	Second QSAR model	NN2 model	Third QSAR model	NN1 model	NN3 model
MAE (%)	Min	0.0181	0.0398	0.0026	0.0355	0.0012	0.0107
	Mean	14.7812	25.6549	6.6125	26.3838	7.9138	6.0995
	Max	103.6456	161.5519	41.3028	147.8948	55.8563	36.7830
MPE (%)	Min	0.0586	0.1314	0.0030	0.0418	0.0014	0.0258
	Mean	72.2176	69.1874	19.6434	66.7159	25.1074	20.7351
	Max	2489.0300	2383.5150	1133.5400	2381.1650	1185.4200	1317.9000
RMSE (%)	Min	0.0181	0.0398	0.0026	0.0355	0.0012	0.0107
	Mean	20.5394	35.1141	9.0742	35.3575	11.2430	8.2047
	Max	103.6456	161.5519	41.3028	147.8948	55.8563	36.7830
SEP (%)	Min	0.0264	0.0531	0.0035	0.0476	0.0016	0.0143
	Mean	29.9998	46.8567	12.1087	47.4025	15.0730	10.9485
	Max	151.3846	215.5767	55.1149	198.2769	74.8844	49.0837

Min: minimum, Max: maximum

to the QSAR models, the two approaches were compared in terms of the mean absolute error (MAE), the model predictive error (MPE), the root mean squared error (RMSE), and the standard error of prediction (SEP). Three QSAR models, developed by Yangali-Quintanilla and co-workers in 2009 and 2010, were used for comparison. MAE, MPE, and SEP are defined as follows [50-52,56,57]:

$$\mathrm{MAE}=\frac{1}{n}\Sigma_{i=1}^{n}\left|(y_{i,\,exp}-y_{i,\,cal})\right| \tag{9}$$

$$\mathrm{MPE}\ (\%)=\frac{100}{n}\Sigma_{i=1}^{n}\left|\frac{(y_{i,\,exp}-y_{i,\,cal})}{y_{i,\,exp}}\right| \tag{10}$$

$$\mathrm{SEP}\ (\%)=\frac{\mathrm{RMSE}}{Y_e}*100 \tag{11}$$

where n is the total number of data points; $Y_{i,exp}$ is the experimental value, $Y_{i,cal}$ represents the calculated value from the neural network model or QSAR model and Y_e is the mean value of experimental data.

The first QSAR model used for comparison (Eq. (12)) was developed by Yangali-Quintanilla et al. in 2009. It correlates organic compounds rejection with membrane properties and operating conditions [19]:

$$\begin{aligned}\mathrm{Rejection}=&183\mathrm{eqwidth}+31.830\mathrm{lenght}-0.549\mathrm{logk}_{ow}\\&+883.294\mathrm{SR}(\mathrm{MgSO_4})-945.133\end{aligned} \tag{12}$$

The other QSAR models used for comparison (Eq. (13) and (14)) were developed by Yangali-Quintanilla et al. in 2010. They correlate organic compounds rejection with membrane properties and operating conditions [24]:

$$\begin{aligned}\mathrm{Rejection}=&265.150\mathrm{eqwidth}-117.356\mathrm{depth}+81.662\mathrm{length}\\&-5.229\mathrm{logD}+1358.090\mathrm{SR}(\mathrm{MgSO_4})-1447.817\end{aligned} \tag{13}$$

$$\begin{aligned}\mathrm{Rejection}=&265.150\mathrm{eqwidth}-117.356\mathrm{depth}+81.662\mathrm{length}\\&-5.229\mathrm{logD}-0.272\mathrm{MWCO}-62.565\end{aligned} \tag{14}$$

where eqwidth is the equivalent molecular width (nm), length represents the molecular length (nm), logk_{ow} represents the logarithm of the octanol-water partition coefficient, SR ($MgSO_4$) is the magnesium sulfate salt rejection, depth represents the molecular depth (nm), logD is the ratio of the equilibrium concentrations of all species (unionized and ionized) of a molecule in octanol to the same species in the water phase, and MWCO represents the molecular weight cut off (Dalton).

Table 7 shows the comparison between the NN models and the three QSAR models developed by Yangali-Quintanilla et al. The performance of each model was evaluated in terms of the mean absolute error (MAE), the model predictive error (MPE), the root mean squared error (RMSE), and the standard error of prediction (SEP). The NN models developed in this work gave lower errors than QSAR models.

CONCLUSION

This paper has given one more reason for the widespread use of the feed-forward artificial neural networks in modeling the rejection processes of organic compounds (neutral and ionic) by nanofiltration and reverse osmosis membranes. The purpose of the current study was to develop three feed-forward neural network models able to summarize interactions between membrane characteristics, filtration operating conditions and physicochemical properties of organic compounds (neutral and ionic).

The NN models developed in this work gave lower errors than the QSAR models. The mean absolute errors for the total dataset were 7.9138 for NN1, 6.6125 for NN2, and 6.0995 for NN3, the model predictive errors were 25.1074 for NN1, 19.6434 for NN2, and 20.7351 for NN3, the root mean squared errors were 11.2430 for NN1, 9.0742 for NN2, and 8.2047 for NN3, and the standard errors of prediction were 15.0730 for NN1, 12.1087 for NN2, and 10.9485 for NN3. The mean absolute errors for the QSAR models

were 14.7812 for first QSAR, 25.6549 for second QSAR, and 26.3838 for third QSAR, the model predictive errors for the QSAR models were 72.2176 for first QSAR, 69.1874 for second QSAR, and 66.7159 for third QSAR, the root mean squared errors were 20.8394 for the first QSAR, 35.1141 for the second QSAR, and 35.3575 for the third QSAR, and the standard errors of prediction were 29.9998 for the first QSAR, 46.8567 for the second QSAR, and 47.4025 for the third QSAR.

The sensitivity analysis identified that the most important variables that influence the rejection of organic compounds (neutral and ionic) are MW, logD, length, Eqwidth, MWCO, SR($MgSO_4$), contact angle, Zeta potential, pH, pressure and recovery. Magnesium sulfate salt rejection may be a possible lump parameter for modeling rejection of organic compounds (neutral and ionic) by NF/RO membranes.

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SUPPORTING INFORMATION

Additional information as noted in the text. This information is available via the Internet at http://www.springer.com/chemistry/journal/11814.

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Supporting Information

Prediction of the rejection of organic compounds (neutral and ionic) by nanofiltration and reverse osmosis membranes using neural networks

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ANNEXE A.

DB1

Organic compounds properties												Membrane characteristics			Operating conditions				
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
1,4-Dioxane	HL	88	-0.27	-0.17	0	0.71	0.66	0.52	0.59	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	46.1	[39,42]
1,4-Dioxane	HL	88	-0.27	-0.17	0	0.71	0.66	0.52	0.59	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	47.52	[39,42]
17α-Ethynyl estradiol	HB	296.4	3.67	3.67	1.8	1.33	0.57	0.48	0.52	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	99.9	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	88.66	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	87.68	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	86.7	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	89.94	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.67	1.8	1.33	0.57	0.48	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	71.98	[46]
17α-Ethynyl estradiol	HB	296	3.67	3.67	1.8	1.33	0.57	0.48	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	69.83	[46]
17α-Ethynyl estradiol	HB	296	3.67	3.67	1.8	1.33	0.57	0.48	0.52	NE70	NF	(NE70,NE4040-70, Saehan-CSMMembranes, Woongjin ChemicalAmerica, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	71.9	[45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	87.4	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	55.3	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	98	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	95.2	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	X20	RO	TriSep	200	-87	55	8	1723.69	75	98.2	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	NF270	Loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	16.8	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	X20	RO	TriSep	200	-87	55	7	1034.21	75	97.1	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	NF270	Loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	27.9	[35,39,45]

Organic compounds properties										Membrane characteristics				Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	97.3	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	NF270	Loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	68.6	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	97.2	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	NF270	Loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	76.7	[35,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	90.07	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	94.33	[39,45]
17β-Estradiol	HB	272	4.01	3.35	1.8	1.21	0.62	0.42	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	67.67	[46]
17β-Estradiol	HB	272	4.01	3.35	1.8	1.21	0.62	0.42	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	89.22	[46]
17β-Estradiol	HB	272	4.01	3.35	1.8	1.21	0.62	0.42	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	75	[46]
17β-Estradiol	HB	272	4.01	3.35	1.8	1.21	0.62	0.42	0.51	NE70	NF	(NE70, NE4040-70, Saehan-CSM Membranes, Woongjin ChemicalAmerica, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	67.9	[19,45]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	80.6	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	92.7	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	95.1	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	98.7	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	79.28	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	85.77	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	84.79	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	89.32	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	95.39	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	96.81	[19,39]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	63.2	[24]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	90.9	[24]
17β-Estradiol	HB	272.39	4.01	4.01	1.56	1.39	0.85	0.65	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	500	2.5	83	[4,19]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	90.9	[19]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	75.8	[19]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	78	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	37.2	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	95.5	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	89.8	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	X20	RO	TriSep	200	-87	55	8	1723.69	75	95.8	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	0	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	X20	RO	TriSep	200	-87	55	7	1034.21	75	95.6	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	14.9	[19,35]

Organic compounds properties										Membrane characteristics				Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	98.1	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	47.7	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	97.6	[19,35]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	57.6	[19,35]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	22	[13,19,24]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	21	[13,19,24]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Desal HL	NF	GE Osmonics	175	-11	43	7	500	5.5	21	[19]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	TS-80	NF	Trisep	200	-14	48	7	500	5.5	21.5	[19]
2-(2-Butoxyethoxy)ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-5	47	7.5	800	30	81	[19,31]
2-(2-Butoxyethoxy)ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	-20	50	7.5	800	30	80	[19,31]
2-(2-Butoxyethoxy)ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	-9.96	63.2	7.5	800	30	61	[19,31]
2,4-Dinitrophenol	HL	184.11	1.73	-0.9	4.65	1.01	0.77	0.35	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	90	[13,19,24, (KOWWIN, EPA)]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	38	[19]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	21	[13,19,24]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	38	[13,19,24]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	25	[19]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	TS-80	NF	Trisep	200	-14	48	7	500	5.5	31.7	[19]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	32	[13,19,24]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	25	[13,19,24]
Acetaminophen	HL	151	0.46	0.23	3.66	0.91	0.44	0.18	0.28	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin ChemicalAmerica, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	27.2	[45]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	21.42	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	20.77	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	19.78	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	23.67	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	74.82	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	77.66	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	71.2	[19]
Acetaminophen	HL	151	0.23	0.23	3.66	0.91	0.44	0.18	0.28	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	27.15	[46]
Acetaminophen	HL	151	0.23	0.23	3.66	0.91	0.44	0.18	0.28	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	38.36	[46]

Organic compounds properties										Membrane characteristics				Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Acetaminophen	HL	151	0.23	0.23	3.66	0.91	0.44	0.18	0.28	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	25	[46]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	689.47	75	28.9	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	27.7	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1378.95	75	84.7	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	7.6	1034.21	75	74.4	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	75.2	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	21.4	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	68.5	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	83.7	[38]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	47.9	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	0	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	76.7	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	X20	RO	TriSep	200	-87	55	8	1723.69	75	82.1	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	31.2	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	X20	RO	TriSep	200	-87	55	7	1034.21	75	92.2	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	1.3	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	94.5	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	0	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	99.7	[24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	8.2	[24,36]
Acetaminophen	HL	151.2	0.46	0.23	4.55	1.14	0.68	0.42	0.53	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	97.7	[24,40]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	99.18	[19,12]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	97.55	[19,12]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	61.44	[19,12]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10.01	2500	10	93.47	[13,19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	98.13	[13,19]
Aminopyrine	HL	231	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	90.49	[19,33]
Aminopyrine	HL	231	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	88.31	[19,33]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	98	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	97	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	94	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	97.7	[19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	TS-80	NF	Trisep	200	-14	48	7	500	5.5	97	[19]

Organic compounds properties										Membrane characteristics				Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	97	[13,19,24]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	98	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	85	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	75	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	74.8	[19]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	TS-80	NF	Trisep	200	-14	48	7	500	5.5	85.2	[19]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	91.02	[13,24,12, ChemBIO]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	89.39	[13,24,12, ChemBIO]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	11.86	[13,24,12, ChemBIO]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	98.78	[13,24,37, ChemBIO]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	87.51	[13,24,37, ChemBIO]
Atenolol	HL	266	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	78.45	[33,13,24, ChemBIO]
Atenolol	HL	266	0.16	-2.27	2.92	1.78	0.7805	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	79.48	[13,24,33, ChemBIO]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.7805	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	90	[13,24,33, ChemBIO]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	85	[13,24,33, ChemBIO]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	75	[13,24,33, ChemBIO]
Atenolol	HL	266.3	0.16	-2.21	2.92	1.78	0.78	0.61	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	89	[13,24, ChemBIO]
Atenolol	HL	266.3	0.16	-2.21	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	95	[13,24, ChemBIO]
Atrazine	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	68	[19,34]
Atrazine	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	50	[19 34]
Atrazine	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	34	[19,34]
Atrazine	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	83.8	[19]
Atrazine	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	97.8	[19]
Atrazine	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	TS-80	NF	Trisep	200	-14	48	7	500	5.5	91.3	[19]
Atrazine	HB	216	2.61	2.61	3.43	1.26	1	0.55	0.74	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	91	[13,24,39]
Atrazine	HB	216	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200C	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	81.3	[13,24]
Atrazin	HB	216	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90C	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	95	[13,24]
Atrazine	HB	215.7	2.61	2.52	3.43	1.26	1	0.55	0.74	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	98.8	[19,40]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	28.06	7	500	50	73.8	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	48.17	7	500	50	58.95	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	51.27	7	500	50	82.1	[19,41]

Organic compounds properties										Membrane characteristics			Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	59.67	7	500	50	86.9	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	35.6	7	500	50	55.06	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	33.51	7	500	50	57.49	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	31.82	7	500	50	71.66	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	29.61	7	500	50	74.9	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	30.57	7	500	50	72.84	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	32.67	7	500	50	69.55	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	44.64	7	500	50	47.32	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF270	NF	Dow/Filmtec	200	-21.6	53.48	7	500	50	48.15	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	61.99	7	500	50	80.97	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	56.96	7	500	50	58.41	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	56.54	7	500	50	69.91	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	59.23	7	500	50	93.36	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	65.86	7	500	50	92.48	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	54.87	7	500	50	86.4	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	67.62	7	500	50	84.21	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	69.39	7	500	50	85.96	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	68.27	7	500	50	70.61	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	65.41	7	500	50	85.96	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	NF-90	NF	Dow/Filmtec	200	-24.9	70.72	7	500	50	89.47	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	64.92	7	500	50	82.89	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	51.94	7	500	50	68.42	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	54.45	7	500	50	71.49	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	65.41	7	500	50	88.6	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	63.64	7	500	50	90.35	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	53.61	7	500	50	84.21	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	53.61	7	500	50	82.89	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	46.85	7	500	50	82.89	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	41.99	7	500	50	87.28	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	63.25	7	500	50	72.17	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	66.18	7	500	50	74.78	[19,41]

Organic compounds properties										Membrane characteristics					Operating conditions				
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	63.2	7	500	50	77.83	[19,41]
Atrazine	HB	215.69	2.68	2.52	2.46	1.26	1	0.55	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow/Filmtec	100	-3.2	59.67	7	500	50	84.35	[19,41]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	88.6	[38]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	95.7	[38]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	94.5	[38]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	98.2	[38]
Atropine	HL	289.38	1.83	-1.22	0.74	1.26	0.97	0.87	0.92	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	95	[13,24, ChemBio (KOWWIN, EPA)]
Atropine	HL	289.38	1.83	-1.22	0.74	1.26	0.97	0.87	0.92	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	98	[13,24, ChemBio (KOWWIN, EPA)]
Bentazon	HB	240.28	2.34	1.15	1.29	1.18	0.79	0.73	0.76	TS-80	NF	Trisep	200	-14	48	7	500	5.5	98.1	[19]
Bentazon	HB	240.28	2.34	2.34	1.29	1.18	0.79	0.73	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	98	[13,24, ChemBio (KOWWIN, EPA)]
Bisphenol A	HB	228	3.86	3.86	1.26	0.95	0.59	0.46	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	27.59	[46]
Bisphenol A	HB	228	3.86	3.86	1.26	0.95	0.59	0.46	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	40.95	[46]
Bisphenol A	HB	228	3.86	3.86	1.26	0.95	0.59	0.46	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	28.88	[46]
Bisphenol A	HB	228	3.32	3.86	1.26	0.95	0.59	0.46	0.52	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	27.8	[19,45]
Bisphenol A	HB	228	3.32	3.86	0.71	1.25	0.83	0.75	0.79	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	7	500	2.5	83	[4,19]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	54.7	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	57.29	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	54.69	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	59.23	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	89.01	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	90.07	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	45.4	[24]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	90.4	[24]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	70.7	[35,38]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	25.6	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	93.9	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	86.7	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	X20	RO	TriSep	200	-87	55	8	1723.69	75	95.3	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	6.3	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	X20	RO	TriSep	200	-87	55	7	1034.21	75	96.1	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	4.6	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	97.9	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	10.7	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	96.7	[35,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	35.4	[35,38]
Bis-phenol A	HB	228.3	3.32	3.86	2.13	1.25	0.83	0.75	0.79	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	94.8	[19,40]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	ESNA	NF	Hydranautics, Oceanside CA	200	-11	47.3	7	552	5	45	[3,19]
Bis-phenol A	HB	228.29	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90C	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	90.4	[19]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	50.4	[38]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	91.5	[38]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	96.5	[38]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	LE-440	RO	FilmTec	100	-23	42	8	550	10	7	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	NF-90	NF	FilmTec	200	-31	60	8	280	10	0	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	BW-400	RO	FilmTec	100	-4.5	57	8	620	10	16	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	-19	40	8	410	10	16	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	RE BLR	RO	FilmTec	100	-21	47	8	480	10	50	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	NE90	NF	Saehan	200	-24	52	8	240	10	17	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-15	54	8	340	10	34	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	RE-BLR	RO	Dow-Filmtec	100	-20.9	46.8	8	480	5.5	50	[19]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	54.6	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	5.4	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	100	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	88.8	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	X20	RO	TriSep	200	-87	55	8	1723.69	75	86.5	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	3.8	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	X20	RO	TriSep	200	-87	55	7	1034.21	75	94.7	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	11.7	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	98	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	60.2	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	97	[35,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	62.2	[35,38]
Caffeine	HL	194.2	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	98	[19,40]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	500	2.5	70	[4,19]

Organic compounds properties										Membrane characteristics					Operating conditions				
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	50	[19]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	80.8	[19]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	62.7	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	84.8	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	69.2	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	93.3	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	50	[24]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	80.8	[24]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	69.34	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	65.77	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	63.49	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	65.75	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	90.07	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.77	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	93.26	[19,39]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	-20	50	7.5	800	30	81	[19,31]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	-9.96	63.2	7.5	800	30	59	[19,31]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-5	47	7.5	800	30	79	[19,31]
Carbamazepine	HB	236	2.23	2.23	4.1	0.93	0.54	0.5	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	59.48	[46]
Carbamazepine	HB	236	2.23	2.23	4.1	0.93	0.54	0.5	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	70.26	[46]
Carbamazepine	HB	236	2.23	2.23	4.1	0.93	0.54	0.5	0.52	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	66.81	[46]
Carbamazepine	HB	236	2.45	2.23	4.1	0.93	0.54	0.5	0.52	NE70	NF	(NE70, NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	59.8	[19,45]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	96.33	[19,32]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	88.16	[19,32]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	30.51	[19,32]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	99.84	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.99	2500	10	99.38	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.68	2500	10	85.35	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	86.28	[13,19]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	84.41	[19,33]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	82	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	84	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	82	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	64	[19,33]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	66.9	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	8.9	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	92.6	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	X20	RO	TriSep	200	-87	55	8	1723.69	75	91	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	6.6	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	X20	RO	TriSep	200	-87	55	7	1034.21	75	91.5	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	5.8	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	97.9	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	51.7	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	97	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	71.2	[24,35]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	689.47	75	93.4	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	95.8	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1378.95	75	98.1	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	7.6	1034.21	75	93.6	[19,36]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	98.1	[19,40]
Carbamazepine	HB	236.27	2.45	2.45	3.66	1.2	0.92	0.58	0.73	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	500	2.5	91	[4,19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	90.8	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	TS-80	NF	Trisep	200	-14	48	7	500	5.5	88.4	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	-23.02	41.5	8	510	5.5	76	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	70	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	95	[19]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	78.8	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	91.3	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	80.4	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	95.9	[38]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	88	[13,24]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	95	[13,24]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	79.34	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	80.64	[19,39]

Organic compounds properties										Membrane characteristics			Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	83.23	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	83.87	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	90.07	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	92.2	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	70	[24]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	90.8	[24]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	LE-440	RO	FilmTec	100	-23	42	8	550	10	89	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NF-90	NF	FilmTec	200	-31	60	8	280	10	70	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	BW-400	RO	FilmTec	100	-4.5	57	8	620	10	96	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	-19	40	8	410	10	83	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	RE BLR	RO	FilmTec	100	-21	47	8	480	10	99	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NE90	NF	Saehan	200	-24	52	8	240	10	70	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-15	54	8	340	10	79	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NF-90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	70	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	-23.02	41.5	8	510	5.5	89	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	BW-400	RO	Dow-Filmtec	100	-4.49	56.8	8	620	5.5	96	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	410	5.5	83	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NE-90	NF	Saehan	200	-23.6	51.7	8	240	5.5	70	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-14.9	54.4	8	340	5.5	79	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-14.9	54.4	8	340	5.5	84	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	BW-400	RO	Dow-Filmtec	100	-4.49	56.8	8	620	5.5	78	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NE-90	NF	Saehan	200	-23.6	51.7	8	240	5.5	52	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	-23.02	41.5	8	510	5.5	69	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NF-90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	35	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	410	5.5	69	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	LE-440	RO	FilmTec	100	-23	42	8	550	10	69	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NF-90	NF	FilmTec	200	-31	60	8	280	10	35	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	BW-400	RO	FilmTec	100	-4.5	57	8	620	10	78	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	-19	40	8	410	10	69	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	RE BLR	RO	FilmTec	100	-21	47	8	480	10	90	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NE90	NF	FilmTec	200	-24	52	8	240	10	52	[19,37]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	UTC-70	LPRO (low pressure reverse osmosis).)	Saehan	100	-15	54	8	340	10	84	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	LE-440	RO	FilmTec	100	-23	42	8	550	10	3	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NF-90	NF	FilmTec	200	-31	60	8	280	10	0	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	BW-400	RO	FilmTec	100	-4.5	57	8	620	10	4	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	-19	40	8	410	10	10	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	RE BLR	RO	FilmTec	100	-21	47	8	480	10	34	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NE90	NF	Saehan	200	-24	52	8	240	10	1	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-15	54	8	340	10	9	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NF-90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	1	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	410	5.5	10	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NE-90	NF	Saehan	200	-23.6	51.7	8	240	5.5	1	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	UTC-70	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	-14.9	54.4	8	340	5.5	9	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	BW-400	RO	Dow-Filmtec	100	-4.49	56.8	8	620	5.5	4	[19]
Chlorotoluron	HB	212.68	2.41	0.41	2.74	1.29	0.83	0.45	0.61	TS-80	NF	Trisep	200	-14	48	7	500	5.5	81.1	[19]
Chlorotoluron	HB	212.68	2.41	2.41	2.74	1.29	0.83	0.45	0.61	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	81	[13,24,19]
Ciprofloxacin	HL	331.35	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	NF90	NF	Dow/FilmTec	200	-24.9	62	6.5	4100	15	99.4	[43,44, ChemBIO, ChemSpider]
Ciprofloxacin	HL	331.35	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	XLE	RO	Dow/FilmTec	100	-3.2	65	6.5	4100	15	99.7	[43,44, ChemBIO, ChemSpider]
Ciprofloxacin	HL	331	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	SWC4+	RO	(Hydranautics, Oceanside, CA, USA)	100	3	48.8	4	1000	0.03	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Ciprofloxacin	HL	331	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	LFC-1	RO	(Hydranautics, Oceanside, CA, USA)	100	3.1	20.1	4	1000	0.05	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Ciprofloxacin	HL	331	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	NF90	NF	(Dow/FilmTec, Midland, MI, USA)	150	2	44.7	4	1000	0.12	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Ciprofloxacin	HL	331	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	HL	NF	(Desal, Osmonics, GE Infrastructure Water Process Techn., Vista, CA, USA)	225	-4.5	27.5	4	1000	0.18	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]

Organic compounds properties												Membrane characteristics				Operating conditions			
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Ciprofloxacin	HL	331	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	DK	NF	(Desal, Osmonics, GE Infrastructure Water Process Techn., Vista, CA, USA)	225	0	40.6	4	1000	0.07	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	90.2	[13,24,12 ChemBIO]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	87.34	[13,24,12 ChemBIO]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	18.22	[13,24,12 ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	99.39	[13,24, ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10	2500	10	98.94	[13,24, ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.7	2500	10	97.26	[13,24, ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	82.94	[13,24, ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	87.31	[13,24, ChemBIO]
Clenbuterol	HL	277	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	80.51	[13,24,33, ChemBIO]
Clenbuterol	HL	277	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	78.34	[13,24,33, ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	71	[13,24,33, ChemBIO]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	87	[13,24]
Clofibric acid	HB	214	2.76	-0.98	3.36	0.99	0.45	0.36	0.4	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	89.22	[46]
Clofibric acid	HB	214	2.76	-0.98	3.36	0.99	0.45	0.36	0.4	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	90.95	[46]
Clofibric acid	HB	214	2.76	-0.98	3.36	0.99	0.45	0.36	0.4	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	92.24	[46]
Clofibric acid	HB	214	2.57	-0.98	3.36	0.99	0.45	0.36	0.4	NE70	NF	(NE70, NE4040-70, Saehan-CSM Membranes,Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	89.2	[45]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,24,12]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	98.37	[13,24,12]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	84.32	[13,24,12]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	94.96	[13,24]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.99	2500	10	100	[13,24]

Organic compounds properties										Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-12.49	43	5.73	2500	10	70	[13,24]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-24.65	43	9.5	2500	10	98.65	[13,24]
Clofibric acid	HB	215	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	88.08	[13,24,33]
Clofibric acid	HB	215	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	86.36	[13,24,33]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	98	[13,24,34]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	97	[13,24,34]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	95	[13,24,34]
Clofibric acid	HB	214	2.57	-0.2	0.79	0.95	0.66	0.41	0.52	LE-440	RO	FilmTec	100	-23	42	8	550	10	87	[19,37]
Clofibric acid	HB	214	2.57	-0.2	0.79	0.95	0.66	0.41	0.52	NF-90	NF	FilmTec	200	-31	60	8	280	10	86	[19,37]
Clofibric acid	HB	214.7	2.57	-0.2	0.79	1.2	0.66	0.68	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	98	[13,24]
Clofibric acid	HB	214.7	2.57	-0.2	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,24]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,24,12]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	93.47	[13,24,12]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	33.05	[13,24,12]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.37	2500	10	98.76	[13,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10.01	2500	10	99.38	[13,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.7	2500	10	92.99	[13,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.5	2500	10	91.9	[13,24]
Cyclophosphamide	HL	261	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	88.08	[13,24,33]
Cyclophosphamide	HL	261	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	84.3	[13,24,33]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	95	[13,24,34]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	94	[13,24,34]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	84	[13,24,34]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	96.5	[19]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	TS-80	NF	Trisep	200	-14	48	7	500	5.5	93.6	[19]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	94	[13,19,24]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	97	[13,19,24]
Dichloroacetic acid	HL	129	0.92	-3.54	2.4	0.7	0.69	0.52	0.6	LE-440	RO	FilmTec	100	-23	42	8	550	10	77	[19,37]
Dichloroacetic acid	HL	129	0.92	-3.54	2.4	0.7	0.69	0.52	0.6	NF-90	NF	FilmTec	200	-31	60	8	280	10	89	[19,37]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Diclofenac	HB	296	4.29	0.73	4.88	0.96	0.72	0.47	0.58	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	91.81	[46]
Diclofenac	HB	296	4.29	0.73	4.88	0.96	0.72	0.47	0.58	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	89.22	[46]
Diclofenac	HB	296	4.29	0.73	4.88	0.96	0.72	0.47	0.58	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	92.24	[46]
Diclofenac	HB	296	4.51	0.73	4.88	0.96	0.72	0.47	0.58	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	91.9	[45]
Diclofenac	HB	296.15	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,24,12,37]
Diclofenac	HB	296.15	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	100	[13,24,12,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	99.14	[13,24,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.99	2500	10	99.66	[13,24,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-24.65	43	9.5	2500	10	98.4	[13,24,37]
Diclofenac	HB	296	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	89.23	[13,24,33,37]
Diclofenac	HB	296	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	86.7	[13,24,33,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	98	[13,24,33,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	98	[13,24,33,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	94	[13,24,33,37]
Diclofenac	HB	296.16	4.51	1.62	1.48	0.94	0.72	0.85	0.9	TF-HR	RO	TF-HR, Koch Membrane Systems, Wilmington, Massachusetts	100	-8.5	35	6	621	12.7	94.53	[13,30,24,37]
Diclofenac	HB	296.16	4.51	1.62	1.48	0.94	0.72	0.85	0.9	TFC-SR2	NF	Koch (Wilmington, Massachusetts)	400	-11	55.3	6	414	24.5	54.64	[13,30,24,37]
Diclofenac	HB	296	4.51	1.62	1.48	1.13	0.91	0.45	0.64	LE-440	RO	FilmTec	100	-23	42	8	550	10	91	[19,37]
Diclofenac	HB	296	4.51	1.62	1.48	1.13	0.91	0.45	0.64	NF-90	NF	FilmTec	200	-31	60	8	280	10	90	[19,37]
Diclofenac	HB	296.2	4.51	1.62	1.48	1.16	0.91	0.85	0.9	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	99	[13,24,37]
Diclofenac	HB	296.2	4.51	1.62	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,24,37]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	98.4	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	75.4	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	98.7	[35,45, (KOWWIN, EPA)]

Organic compounds properties										Membrane characteristics			Operating conditions							
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	89.9	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	X20	RO	TriSep	200	-87	55	8	1723.69	75	100	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	27.9	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	X20	RO	TriSep	200	-87	55	7	1034.21	75	98.4	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	41.8	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	98.6	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	80.3	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	98	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	59.5	[35,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.33	4.42	1.22	1.03	1	0.31	0.56	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	56.9	[45]
Diethylstilbesterol	HB	268	5.33	4.42	1.22	1.03	1	0.31	0.56	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	75.86	[45]
Diethylstilbesterol	HB	268	5.33	4.42	1.22	1.03	1	0.31	0.56	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	26.72	[45]
Diethylstilbesterol	HB	268	5.07	4.42	1.22	1.03	1	0.31	0.55	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	57.5	[46]
Dikegulac	HL	274.27	1.35	-2.05	2.97	1.19	0.95	0.69	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	95	[13,24, (KOWWIN, EPA), ChemBIO]
Diuron	HB	233.1	2.68	1.97	1.12	1.31	0.76	0.42	0.56	TS-80	NF	Trisep	200	-14	48	7	500	5.5	72.8	[19]
Diuron	HB	233.1	2.68	2.68	1.12	1.31	0.76	0.42	0.56	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	73	[13,19,24]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	SWC4+	RO	Hydranautics	100	3	48.8	4	1000	0.03	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]

Organic compounds properties										Membrane characteristics			Operating conditions							
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	LFC-1	RO	Hydranautics	100	3.1	20.1	4	1000	0.05	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	NF90	NF	Dow/FilmTec	150	2	44.7	4	1000	0.12	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	HL	NF	Desal	225	-4.5	27.5	4	1000	0.18	98.5	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	DK	NF	Desal	225	0	40.6	4	1000	0.07	99.4	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	SWC4+	RO	Hydranautics	100	-16	48.8	8	1000	0.03	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	LFC-1	RO	Hydranautics	100	-3.5	20.1	8	1000	0.05	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	NF90	NF	Dow/FilmTec	150	-16.66	44.7	8	1000	0.125	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	HL	NF	Desal	225	-19	27.5	8	1000	0.184	92.1	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Enrofloxacin	HL	359	0.7	0.66	10.78	1.33	0.66	0.29	0.44	DK	NF	Desal	225	-20	40.6	8	1000	0.07	99.9	[44, ChemBIO, ChemSpide, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.45	2.87	1.21	0.59	0.39	0.48	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	81.46	[46]
Estriol	HB	288	2.45	2.45	2.87	1.21	0.59	0.39	0.48	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	82.76	[46]
Estriol	HB	288	2.45	2.45	2.87	1.21	0.59	0.39	0.48	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	72.84	[46]

Organic compounds properties										Membrane characteristics			Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Estriol	HB	288	2.45	2.45	2.87	1.21	0.59	0.39	0.48	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	81.7	[45]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	74.8	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	23.7	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	96.8	[35, 45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	93.7	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	X20	RO	TriSep	200	-87	55	8	1723.69	75	90.9	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	11.9	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	X20	RO	TriSep	200	-87	55	7	1034.21	75	95.2	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	8.6	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	96.2	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	48.1	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	96.3	[35,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	13.2	[35,45, (KOWWIN, EPA)]
Estrone	HB	270	3.46	3.46	3.93	1.16	0.55	0.43	0.49	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	72.41	[46]
Estrone	HB	270	3.46	3.46	3.93	1.16	0.55	0.43	0.49	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	80.17	[46]
Estrone	HB	270	3.46	3.46	3.93	1.16	0.55	0.43	0.49	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	75.86	[46]
Estrone	HB	270	3.13	3.46	3.93	1.16	0.55	0.43	0.49	NE70	NF	(NE70,NE4040-70, Saehan-CSMMembranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	72.4	[19,45]

Organic compounds properties										Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Estrone	HB	270	3.13	3.13	3.46	1.39	0.85	0.67	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	90	[13,24]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	76.39	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	83.85	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	81.57	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	86.11	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	93.26	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	91.49	[19,39]
Estrone	HB	270	3.13	3.46	3.46	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	76.4	[24]
Estrone	HB	270	3.13	3.46	3.46	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	90.3	[24]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	689.47	75	92	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	95.2	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1378.95	75	95.7	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	7.6	1034.21	75	91.4	[19,36]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	77.3	[19]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	90.3	[19]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	TS-80	NF	Trisep	200	-14	48	7	500	5.5	90	[19]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	92.2	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	93	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	92	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	98	[38]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	79.2	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	39	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	92.6	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	X20	RO	TriSep	200	-87	55	8	1723.69	75	97.8	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	8.2	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	X20	RO	TriSep	200	-87	55	7	1034.21	75	96.9	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	19.3	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	98.1	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	31.7	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	97.3	[24,35]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	73.6	[24,35]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	TS-80	NF	Trisep	200	-14	48	7	500	5.5	8.7	[19]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	9	[13,24]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	38	[13,24]
Fenoprofen	HB	242.27	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	97.14	[13,24,12, ChemBIO]
Fenoprofen	HB	242.27	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	69.91	[13,24,12, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.4	2500	10	71.37	[13,24, ChemBIO]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10.01	2500	10	99.23	[13,24, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-24.65	43	9.48	2500	10	98.9	[13,24, ChemBIO]
Fenoprofen	HB	242	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	91.29	[13,24,33, ChemBIO]
Fenoprofen	HB	242	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	73.87	[13,24,33, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	97	[13,24,34, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	91	[13,24,34, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	87	[13,24,34, ChemBIO]
Fenoprofen	HB	242.3	3.9	0.37	1.6	1.16	0.93	0.74	0.83	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	99	[13,24, ChemBIO]
Fenoprofen	HB	242.3	3.9	0.37	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	100	[13,24, ChemBIO]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	90.43	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	92.32	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	91.73	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	94.46	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	95.38	[13,24,39]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	-20	50	7.5	800	30	2	[13,31]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-5	47	7.5	800	30	18	[13,31]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	-9.96	63.2	7.5	800	30	16	[13,31]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	90.23	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	91.83	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	91.43	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	96.42	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	96.08	[13,24,39]
Gemfibrozil	HB	250	4.39	1.33	2.69	1.22	0.68	0.53	0.6	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	95.26	[46]
Gemfibrozil	HB	250	4.39	1.33	2.69	1.22	0.68	0.53	0.6	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	96.12	[46]
Gemfibrozil	HB	250	4.39	1.33	2.69	1.22	0.68	0.53	0.6	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	96.98	[46]
Gemfibrozil	HB	250	4.77	1.33	2.69	1.22	0.68	0.53	0.6	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	95.4	[45, (KOWWIN, EPA)]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,24,12, ChemBIO]

Organic compounds properties										Membrane characteristics					Operating conditions				
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	98.77	[13,24,12, ChemBIO]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	40.68	[13,24,12, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.4	2500	10	97.26	[13,24, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-24.65	43	9.5	2500	10	98.57	[13,24, ChemBIO]
Gemfibrozil	HB	250	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	91.4	[13,24,33, ChemBIO]
Gemfibrozil	HB	250	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	83.04	[13,24,33, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	98	[13,24,34, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	99	[13,24,34, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	98	[13,24,34, ChemBIO]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	86.5	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	27.1	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	97.4	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	X20	RO	TriSep	200	-87	55	8	1723.69	75	97.7	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	16.7	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	X20	RO	TriSep	200	-87	55	7	1034.21	75	96.9	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	10.7	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	99.6	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	85.7	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	98.5	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	92.9	[13,24,35]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	689.47	75	95.2	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	67.5	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	8.1	1378.95	75	98.1	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	-15	56.6	7.6	1034.21	75	96.5	[13,24,36]
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	99	[13,24,40, ChemBIO]
Gemfibrozil	HB	250.34	4.39	2.3	3.04	1.33	0.65	0.65	0.78	TF-HR	RO	TF-HR, Koch Membrane Systems, Wilmington, Massachusetts	100	-8.5	35	6	621	12.7	90.71	[13,24,30, ChemBIO]
Gemfibrozil	HB	250.34	4.39	2.3	3.04	1.33	0.65	0.65	0.78	TFC-SR2	NF	Koch (Wilmington, Massachusetts)	400	-11	55.3	6	414	24.5	67.21	[13,24,30, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	98	[13,24, ChemBIO, (KOWWIN, EPA)]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,24, ChemBIO, (KOWWIN, EPA)]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	TS-80	NF	Trisep	200	-14	48	7	500	5.5	98.1	[19]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	90	[19]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	98	[13,24]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	90	[13,24]
Glycerol	HL	92.1	-1.76	-1.76	3.2	0.8	0.59	0.53	0.56	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	12	[13,24, ChemBIO, (KOWWIN, EPA)]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,24,12,38]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	98.77	[13,24,12,38]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	53.39	[13,24,12,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.4	2500	10	86.58	[13,24]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-24.65	43	9.48	2500	10	98.99	[13,24]
Ibuprofen	HB	206	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	89	[13,24,33,38]
Ibuprofen	HB	206	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	83.95	[13,24,33,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	98	[13,24,34,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	97	[13,24,34,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	84	[13,24,34,38]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow/Filmtec	200	-13.54	63.2	2.99	550	9	89.92	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow/Filmtec	200	-15.73	63.2	4.98	550	9	84.45	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow/Filmtec	200	-19.72	63.2	6.98	550	9	83.61	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow/Filmtec	200	-23.84	63.2	8.97	550	9	87.81	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow/Filmtec	300	0.49	30.3	2.99	550	3	94.54	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow/Filmtec	300	-10.84	30.3	4.98	550	3	69.33	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow/Filmtec	300	-18.95	30.3	7	550	3	74.79	[18,24]
Ibuprofen	HB	206	3.72	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow/Filmtec	300	-22.04	30.3	9	550	3	76.89	[18,24]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.39	0.73	0.55	0.64	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	99.3	[24,40]
Ibuprofen	HB	206.28	3.97	0.77	4.95	1.06	0.5	0.7	0.71	TF-HR	RO	TF-HR, Koch Membrane Systems, Wilmington, Massachusetts	100	-8.5	35	6	621	12.7	96.17	[13,24,30]
Ibuprofen	HB	206.28	3.97	0.77	4.95	1.06	0.5	0.7	0.71	TFC-SR2	NF	Koch (Wilmington, Massachusetts)	400	-11	55.3	6	414	24.5	34.42	[13,24,30]
Ibuprofen	HB	206	3.97	0.77	1.29	1.31	0.77	0.64	0.7	LE-440	RO	FilmTec	100	-23	42	8	550	10	91	[37,19]
Ibuprofen	HB	206	3.97	0.77	1.29	1.31	0.77	0.64	0.7	NF-90	NF	FilmTec	200	-31	60	8	280	10	86	[37,19]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	77.3	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	96.2	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	91.4	[38]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	97.6	[38]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.33	0.73	0.7	0.71	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	99	[13,24]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.33	0.73	0.7	0.71	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,24]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	89.03	[39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	92.72	[39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	89.93	[39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	95.85	[39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	97.46	[39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	75.5	[24]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	96	[24]
Isopropanol	HL	60.11	0.05	-0.18	2.67	0.66	0.57	0.56	0.56	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	-20	50	7.5	800	30	62	[19,31]
Isopropanol	HL	60.11	0.05	-0.18	2.67	0.66	0.57	0.56	0.56	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-5	47	7.5	800	30	63	[19,31]
Isoproturon	HB	206.29	2.87	1.68	2.4	1.42	0.69	0.63	0.66	TS-80	NF	Trisep	200	-14	48	7	500	5.5	93.2	[19]
Isoproturon	HB	206.29	2.87	2.87	2.4	1.42	0.69	0.63	0.66	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	93	[13,19,24]
Ketoprofen	HB	254	2.54	-1.01	2.89	0.96	0.7	0.5	0.59	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	87.07	[46]
Ketoprofen	HB	254	2.54	-1.01	2.89	0.96	0.7	0.5	0.59	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	89.65	[46]
Ketoprofen	HB	254	2.54	-1.01	2.89	0.96	0.7	0.5	0.59	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	90.09	[46]
Ketoprofen	HB	254	3.12	-1.01	2.89	0.96	0.7	0.5	0.59	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	87.1	[45]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,24,12, ChemBIO]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	97.96	[13,24,12, ChemBIO]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	76.69	[13,24,12, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.4	2500	10	85.64	[13,24, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.99	2500	10	99.32	[13,24, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-24.65	43	9.48	2500	10	97.98	[13,24, ChemBIO]
Ketoprofen	HB	254	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	88.77	[13,24,33, ChemBIO]
Ketoprofen	HB	254	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	84.07	[13,24,33, ChemBIO]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	96	[13,24,34, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	96	[13,24,34, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	95	[13,24,34, ChemBIO]
Ketoprofen	HB	254.28	3.12	0.41	4.41	0.93	0.69	0.74	0.83	TF-HR	RO	TF-HR, Koch Membrane Systems, Wilmington, Massachusetts	100	-8.5	35	6	621	12.7	97.81	[13,24,30, ChemBIO]
Ketoprofen	HB	254.28	3.12	0.41	4.41	0.93	0.69	0.74	0.83	TFC-SR2	NF	Koch (Wilmington, Massachusetts)	400	-11	55.3	6	414	24.5	32.79	[13,24,30, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	99	[13,24, ChemBIO]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,24, ChemBIO]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	91.43	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	92.13	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	91.73	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	95.5	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	95.15	[13,24,39]
Lindane	HB	290.83	3.72	2.4	1	0.91	0.86	0.7	0.78	TS-80	NF	Trisep	200	-14	48	7	500	5.5	90.8	[19]
Lindane	HB	290.83	3.72	3.72	1	0.91	0.86	0.7	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	91	[13,24]
Linuron	HB	249.1	3.2	3.2	9.35	1.21	0.89	0.53	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	53	[13,24, ChemBIO, (KOWWIN, EPA)]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	TS-80	NF	Trisep	200	-14	48	7	500	5.5	38.3	[19]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	38	[13,19,24]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	5	[13,19,24]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	-20	50	7.5	800	30	2	[19,31]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-5	47	7.5	800	30	10	[19,31]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	-9.96	63.2	7.5	800	30	4	[19,31]
Metobromuron	HB	259.1	2.38	3.4	0.11	1.34	0.75	0.5	0.61	TS-80	NF	Trisep	200	-14	48	7	500	5.5	78.4	[19]
Metobromuron	HB	259.1	2.38	2.38	0.11	1.34	0.75	0.5	0.61	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	78	[13,19,24]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	90.612	[13,24,12, ChemBIO]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	89.79	[13,24,12, ChemBIO]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	11.02	[13,24,12, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.98	2500	10	92.4	[13,24, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.68	2500	10	97.56	[13,24, ChemBIO]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	88.35	[13,24, ChemBIO]
Metoprolol	HL	267	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	81.09	[13,24,33, ChemBIO]
Metoprolol	HL	267	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	81.09	[13,24,33, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	93	[13,24,34, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	88	[13,24,34, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	78	[13,24,34, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.77	2.16	1.86	0.86	0.62	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	90	[13,24, ChemBIO]
Metoprolol	HL	267.4	1.88	-0.77	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	95	[13,24, ChemBIO]
Metoxuron	HL	228.68	1.64	1.64	3.03	1.29	0.82	0.59	0.7	TS-80	NF	Trisep	200	-14	48	7	500	5.5	88.5	[19]
Metoxuron	HL	228.68	1.64	1.64	3.03	1.29	0.82	0.59	0.7	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	89	[13,19,24]
Metribuzin	HL	214.29	1.7	0.47	4.44	1.17	0.85	0.64	0.74	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	97	[13,24, ChemBIO, (KOWWIN, EPA)]
Metronidazole	HL	171.16	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	47.3	[19]
Metronidazole	HL	171.16	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	82.5	[19]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	53.7	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	83.5	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	29	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	91.5	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	45.74	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	46.38	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	42.15	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	45.4	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	70.92	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	73.4	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	47.3	[24]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	82.5	[24]
Monolinuron	HB	214.65	2.3	2.83	0.3	1.22	0.73	0.65	0.69	TS-80	NF	Trisep	200	-14	48	7	500	5.5	78.8	[19]
Monolinuron	HB	214.65	2.3	2.3	0.3	1.22	0.73	0.65	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	79	[13,19,24]
Monomethylphtalate	HL	180.16	1.13	-2.27	9.78	0.99	0.84	0.47	0.63	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	94	[13,24, ChemBIO, (KOWWIN, EPA)]
MTBE (Methyl tert-butyl ether)	HL	88.15	0.94	0.94	1.43	0.77	0.67	0.59	0.63	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	60	[13,24, ChemBIO, (KOWWIN, EPA)]
NAC (standar) Carbaryl (1-NAPH-THYL-N-METHYL-CARBAMATE)"	HB	201.22	2.36	2.19	2.26	1.24	0.86	0.42	0.6	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	500	2.5	79	[4,19]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
N-acetyl-L-tyrosine	HL	223.23	1.32	-2.18	5.31	1.33	0.84	0.6	0.71	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	94	[13,24, ChemBIO, (KOWWIN, EPA)]
N-acetyl-L-tyrosine	HL	223.23	1.32	-2.18	5.31	1.33	0.84	0.6	0.71	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	70	[13,24, ChemBIO, (KOWWIN, EPA)]
Naproxen	HB	230	3.01	-0.54	2.74	1.14	0.54	0.49	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	73.71	[46]
Naproxen	HB	230	3.01	-0.54	2.74	1.14	0.54	0.49	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	78.45	[46]
Naproxen	HB	230	3.01	-0.54	2.74	1.14	0.54	0.49	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	81.46	[46]
Naproxen	HB	230	3.18	-0.54	2.74	1.14	0.54	0.49	0.51	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	73.6	[24,45]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	88.77	[24,33]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	77.53	[24,33]
Naproxen	HB	230.26	3.18	0.34	2.55	1.12	0.53	0.75	0.76	TF-HR	RO	TF-HR, Koch Membrane Systems, Wilmington, Massachusetts	100	-8.5	35	6	621	12.7	97.27	[24,30]
Naproxen	HB	230.26	3.18	0.34	2.55	1.12	0.53	0.75	0.76	TFC-SR2	NF	Koch (Wilmington, Massachusetts)	400	-11	55.3	6	414	24.5	26.78	[24,30]
Naproxen	HB	230	3.18	0.34	2.74	1.26	0.69	0.54	0.61	LE-440	RO	FilmTec	100	-23	42	8	550	10	75	[37]
Naproxen	HB	230	3.18	0.34	2.74	1.26	0.69	0.54	0.61	NF-90	NF	FilmTec	200	-31	60	8	280	10	89	[37]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	76.8	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	96.2	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	82.4	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	97.1	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.76	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	95	[13,24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.76	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	91.53	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	94.12	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	92.03	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	95.38	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	94.81	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	75.6	[19]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	96	[19]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
NDMA (N-NITROSODI-METHYLAMINE)	HL	74.08	-0.57	-0.57	3.64	0.7	0.61	0.44	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	7	[13,24, ChemBIO, (KOWWIN, EPA)]
NDMA (N-NITROSODI-METHYLAMINE)	HL	74.08	-0.57	-0.57	3.64	0.7	0.61	0.44	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	0	[13,24, ChemBIO, (KOWWIN, EPA)]
NDPA (DIPHENYLNI-TROSAMINE)	HB	198.23	3.13	1.36	3.25	1.16	0.68	0.53	0.6	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	45	[13,24, ChemBIO, (KOWWIN, EPA)]
NDPA (DIPHENYLNI-TROSAMINE)	HB	198.23	3.13	1.36	3.25	1.16	0.68	0.53	0.6	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	19	[13,24, ChemBIO, (KOWWIN, EPA)]
Nonylphenol	HB	220.35	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	83.3	[19]
Nonylphenol	HB	220.35	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	97.8	[19]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	91.7	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	91.3	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	97.6	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	98.8	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	83.3	[24]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	90.3	[24]
Pentoxifylline	HL	278	0.48	0.48	3.07	1.1	0.72	0.64	0.68	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	84.91	[46]
Pentoxifylline	HL	278	0.48	0.48	3.07	1.1	0.72	0.64	0.68	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	84.48	[46]
Pentoxifylline	HL	278	0.48	0.48	3.07	1.1	0.72	0.64	0.68	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	86.64	[46]
Pentoxifylline	HL	278	0.29	0.48	3.07	1.1	0.72	0.64	0.69	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	85	[13,45]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	100	[13,19,24,12]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	94.28	[13,19,24,12]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	22.88	[13,19,24,12]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.38	2500	10	97.98	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10.01	2500	10	99.22	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.68	2500	10	95.01	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	96.26	[13,19,24]

Organic compounds properties										Membrane characteristics					Operating conditions				
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Pentoxifylline	HL	278	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	80.29	[13,19,24,33]
Pentoxifylline	HL	278	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	82.92	[13,19,24,33]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	96	[13,19,24,34]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	92	[13,19,24,34]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	85	[13,19,24,34]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	De-HL	NF	GE Osmonics	175	-11	43	7	500	5.5	98.6	[19]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	94	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	99	[13,19,24]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	RE-BLR	RO	Saehan	100	-20.9	46.8	8	480	5.5	87	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	-23.02	41.5	8	510	5.5	76	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NF-90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	39	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	BW-400	RO	Dow-Filmtec	100	-4.49	56.8	8	620	5.5	71	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	410	5.5	71	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NE-90	NF	Saehan	200	-23.6	51.7	8	240	5.5	57	[19]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	LE-440	RO	FilmTec	100	-23	42	8	550	10	76	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NF-90	NF	FilmTec	200	-31	60	8	280	10	39	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	BW-400	RO	FilmTec	100	-4.5	57	8	620	10	71	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	-19	40	8	410	10	71	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	RE BLR	RO	FilmTec	100	-21	47	8	480	10	87	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NE90	NF	Saehan	200	-24	52	8	240	10	57	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-15	54	8	340	10	57	[19,37]
Phenacetine	HL	179	1.58	1.68	2.4	1.39	0.68	0.42	0.53	LE-440	RO	FilmTec	100	-23	42	8	550	10	56	[19,37]
Phenacetine	HL	179	1.58	1.68	2.4	1.39	0.68	0.42	0.53	NF-90	NF	FilmTec	200	-31	60	8	280	10	45	[19,37]
Phenacetine	HL	179	1.58	1.68	1.67	1.35	0.69	0.42	0.54	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	7	500	2.5	74	[4,19]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	ESNA	NF	Hydranautics, Oceanside CA	200	-11	47.3	7	552	5	19	[3,19]
Phenacetine	HL	179.22	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	41.3	[19]
Phenacetine	HL	179.22	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	75	[19]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	50.4	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	80	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	45.7	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	80.4	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	41.49	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	39.21	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	37.9	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	40.17	[19,39]

Organic compounds properties										Membrane characteristics				Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	72.34	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	70.92	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	41.3	[24]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	75	[24]
Phenazone	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	82	[19,34]
Phenazone	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	73	[19,34]
Phenazone	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	48	[19,34]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	94.28	[19,12]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	84.9	[19,12]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	34.74	[19,12]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.38	2500	10	97.36	[13,19]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10.01	2500	10	95.18	[13,19]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.7	2500	10	45.45	[13,19]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.5	2500	10	72.73	[13,19]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	79.83	[19,33]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	72.61	[19,33]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	60.4	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	85.9	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	65.7	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	95	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	72.95	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	76.51	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	74.56	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF 200	NF	Dow-Filmtec	300	-30	64	7	483	8	78.77	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	91.13	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	94.68	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	52.5	[24]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	85	[24]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	85	[19]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	-20	37.5	7.5	276	5.5	52.5	[19]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	92.65	[13,24,12, ChemBIO]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	75.1	[13,24,12, ChemBIO]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	12.29	[13,24,12, ChemBIO]

Organic compounds properties										Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	94.3	[13,24, ChemBIO]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.98	2500	10	91.26	[13,24, ChemBIO]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	75.1	[13,24, ChemBIO]
Pindolol	HL	248	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	81.09	[13,24,33, ChemBIO]
Pindolol	HL	248	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	71.69	[13,24,33, ChemBIO]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	79	[13,24,34, ChemBIO]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	75	[13,24,34, ChemBIO]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	32	[13,24,34, ChemBIO]
Pindolol	HL	248.3	1.75	-0.32	1.28	1.46	0.8	0.72	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	75	[13,24, ChemBIO]
Pindolol	HL	248.3	1.75	-0.32	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	83	[13,24, ChemBIO]
Primidone	HL	218.25	0.91	-0.62	2.82	1.1	0.79	0.74	0.76	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	8	500	2.5	87	[4,19]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	ESNA	NF	Hydranautics, Oceanside CA	200	-11	47.3	7	552	5	87	[3,19]
Primidone	HL	218.25	0.84	-0.84	4.31	0.73	0.62	0.48	0.65	TF-HR	RO	TF-HR, Koch Membrane Systems, Wilmington, Massachusetts	100	-8.5	35	6	621	12.7	91.8	[30]
Primidone	HL	218.25	0.84	-0.84	4.31	0.73	0.62	0.48	0.65	TFC-SR2	NF	Koch (Wilmington, Massachusetts)	400	-11	55.3	6	414	24.5	8.74	[30]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	LE-440	RO	FilmTec	100	-23	42	8	550	10	83	[37]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	NF-90	NF	FilmTec	200	-31	60	8	280	10	82	[37]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	-23.02	41.5	8	510	5.5	83	[19]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	NF-90	NF	Dow-Filmtec	200	-27	59.8	7.5	280	5.5	82	[19]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	81	[13,24,34, ChemBIO]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	76	[13,24,34, ChemBIO]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	55	[13,24,34, ChemBIO]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	86.53	[13,24,12, ChemBIO]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	75.1	[13,24,12, ChemBIO]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	8.9	[13,24,12, ChemBIO]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	98.94	[13,24, ChemBIO]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.98	2500	10	90.28	[13,24, ChemBIO]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.7	2500	10	96.88	[13,24, ChemBIO]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.5	2500	10	74.42	[13,24, ChemBIO]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Propranolol	HB	259	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	81.32	[13,24,33, ChemBIO]
Propranolol	HB	259	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	74.1	[13,24,33, ChemBIO]
Propranolol	HB	259.4	3.48	0.55	2.43	1.41	0.92	0.88	0.9	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	75	[13,24, ChemBIO]
Propranolol	HB	259.4	3.48	0.55	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	87	[13,24, ChemBIO]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	92.65	[13,24,12, ChemBIO]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	93.06	[13,24,12, ChemBIO]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	19.49	[13,24,12, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	98.56	[13,24, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	9.96	2500	10	99.24	[13,24, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.68	2500	10	98.93	[13,24, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	96.88	[13,24, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	93.44	[13,24, ChemBIO]
Salbutamol	HL	239	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	76.96	[13,24,33, ChemBIO]
Salbutamol	HL	239	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	79.71	[13,24,33, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	93	[13,24,34, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	86	[13,24,34, ChemBIO]
Salbutamol	HL	239.3	0.64	-1.38	1.38	1.36	0.86	0.74	0.8	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	94	[13,24, ChemBIO]
simazin	HB	201.66	2.18	3.5	0.01	1.37	0.85	0.48	0.64	TS-80	NF	Trisep	200	-14	48	7	500	5.5	81.8	[19]
Simazin	HB	201.66	2.18	2.18	0.01	1.37	0.85	0.48	0.64	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	82	[13,19,24]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	93.06	[13,24,12, ChemBIO]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	89.79	[13,24,12, ChemBIO]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	11.86	[13,24,12, ChemBIO]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	99.01	[13,24, ChemBIO]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-27.84	48	10	2500	10	99.24	[13,24, ChemBIO]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.7	2500	10	96.19	[13,24, ChemBIO]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.5	2500	10	98.7	[13,24, ChemBIO]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	90	[13,24, ChemBIO]
Sotalol	HL	272	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	81.2	[13,24,33, ChemBIO]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Sotalol	HL	272	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	75.47	[13,24,33, ChemBIO]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	88	[13,24,34, ChemBIO]
Sotalol	HL	272.4	0.24	-1.7	6.79	1.47	0.96	0.63	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	90	[13,24, ChemBIO]
Sucrose	HL	342.3	-3.7	-3.7	9.61	1.27	0.96	0.86	0.91	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	99	[13,24, ChemBIO]
Sucrose	HL	342.3	-3.7	-3.7	9.61	1.27	0.96	0.86	0.91	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	98	[13,24, ChemBIO, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.68	-1.14	3.07	0.97	0.56	0.46	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	89.65	[46]
Sulfachloropyridazine	HL	285	0.68	-1.14	3.07	0.97	0.56	0.46	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	88.79	[46]
Sulfachloropyridazine	HL	285	0.68	-1.14	3.07	0.97	0.56	0.46	0.51	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	90.95	[46]
Sulfachloropyridazine	HL	285	0.31	-1.14	3.07	0.97	0.56	0.46	0.51	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	89.8	[35, 45]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	78.3	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	18.1	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	98.9	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	97.2	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	X20	RO	TriSep	200	-87	55	8	1723.69	75	94.4	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	10.7	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	X20	RO	TriSep	200	-87	55	7	1034.21	75	96.3	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	13.3	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	99.4	[35,45, (KOWWIN, EPA)]

Organic compounds properties										Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	88.1	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	99.2	[35,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	89.5	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-2.11	6.37	0.99	0.71	0.48	0.58	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	83.19	[46]
Sulfamethizole	HL	270	0.54	-2.11	6.37	0.99	0.71	0.48	0.58	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	84.48	[46]
Sulfamethizole	HL	270	0.54	-2.11	6.37	0.99	0.71	0.48	0.58	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	86.21	[46]
Sulfamethizole	HL	270	0.54	-2.11	6.37	0.99	0.71	0.48	0.58	NE70	NF	(NE70,NE4040-70, Saehan-CSMMembranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	83.1	[45]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	79.7	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	22.4	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	99.7	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	98.7	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	X20	RO	TriSep	200	-87	55	8	1723.69	75	93.4	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	27.8	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	X20	RO	TriSep	200	-87	55	7	1034.21	75	94.4	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	14.5	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	100	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	85.3	[35,45, (KOWWIN, EPA)]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	99.6	[35,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	90	[35,45, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.86	-1.43	5.51	1.24	0.5	0.38	0.43	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	51.1	8.1	344.74	50.08	87.07	[46]
Sulfamethoxazole	HL	253	0.86	-1.43	5.51	1.24	0.5	0.38	0.43	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50.12	90.52	[46]
Sulfamethoxazole	HL	253	0.86	-1.43	5.51	1.24	0.5	0.38	0.43	NE70	NF	NE 4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-28.9	94.7	8.1	413.68	50	91.81	[46]
Sulfamethoxazole	HL	253	0.89	-1.43	5.51	1.24	0.5	0.38	0.43	NE70	NF	(NE70,NE4040-70, Saehan-CSM Membranes, Woongjin Chemical America, Inc., CA, USA	350	-36.4	54.1	8.1	344.74	50	87.1	[45]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8	1723.69	75	76.4	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7	1034.21	75	21.5	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	8.1	1034.21	75	98.8	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	-15	56.6	7.9	1034.21	75	96.7	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	X20	RO	TriSep	200	-87	55	8	1723.69	75	94.1	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8	689.47	75	13.5	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	X20	RO	TriSep	200	-87	55	7	1034.21	75	95.6	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7	344.74	75	9.7	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	X20	RO	TriSep	200	-87	55	8.1	1034.21	75	99.4	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	8.1	517.11	75	88.3	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	X20	RO	TriSep	200	-87	55	7.9	1034.21	75	98.8	[35,38, (KOWWIN, EPA)]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	NF270	loose NF	Dow/FilmTec	400	-87	29.8	7.9	689.47	75	90.1	[35,38, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253.28	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF270	NF	Dow/FilmTec	200	-21.6	28	6.5	4100	15	62.8	[43,38,39]
Sulfamethoxazole	HL	253.28	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow/FilmTec	200	-24.9	62	6.5	4100	15	98.7	[43,38,39]
Sulfamethoxazole	HL	253.3	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	BW30	RO	Dow Filmtec	100	-7	55.3	8	1550	15	98.9	[24,40]
Sulfamethoxazole	HL	253	0.89	-0.45	6.32	1.33	0.71	0.58	0.64	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	-19.42	39.8	7	500	2.5	70	[4,13]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	-10.78	37.5	7	379	3	61.6	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	200	-48	58	7	379	3	94.5	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	-26.3	39.3	7	379	8	52.4	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	200	-38.2	54.2	7	379	8	96.5	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	-28	33.1	7	483	8	84.25	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	-14	70.7	7	483	8	84.35	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	-24	62.3	7	483	8	84.05	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF 90	NF	Dow-Filmtec	200	-32	42.5	7	345	8	96.19	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	200	-22	53.1	7	345	8	95.27	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	-10.78	58	7	483	8	58.9	[24]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	-48.04	39.3	7	276	3	94.4	[24]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	7.5	2500	10	99.18	[13,24,12, ChemBIO]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-30	41	7.5	2500	10	88.98	[13,24,12, ChemBIO]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-12.5	35	6.7	2000	80	16.52	[13,24,12, ChemBIO]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	-5.65	48	3.39	2500	10	98.25	[13,24, ChemBIO]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	1.03	43	2.7	2500	10	98.63	[13,24, ChemBIO]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14.47	43	9.48	2500	10	89.95	[13,24, ChemBIO]
Terbutaline	HL	225	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	-14	48	7	1500	0.5	74.44	[13,24,33, ChemBIO]
Terbutaline	HL	225	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-11	43	7	1500	0.5	72.03	[13,24,33, ChemBIO]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	75	87	[13,24,34, ChemBIO]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	82.5	86	[13,24,34, ChemBIO]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-14	41	7.9	2500	90	78	[13,24,34, ChemBIO]
Terbutaline	HL	225.3	0.9	-1.64	1.8	1.34	0.85	0.7	0.77	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	-14.32	48	7	2500	10	89	[13,24, ChemBIO]
Terbutaline	HL	225.3	0.9	-1.64	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	-10.82	43	7	2500	10	93	[13,24, ChemBIO]
Trichloroacetic acid	HL	163	1.33	-2.42	1.5	0.89	0.67	0.41	0.52	LE-440	RO	FilmTec	100	-23	42	8	550	10	95	[37]
Trichloroacetic acid	HL	163	1.33	-2.42	1.5	0.89	0.67	0.41	0.52	NF-90	NF	FilmTec	200	-31	60	8	280	10	87	[37]
Trichloroethene	HB	131	2.29	2.29	0.95	0.78	0.66	0.36	0.49	RE-BLR	RO	Saehan	100	-20.9	46.8	8	480	5.5	33	[19]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	LE-440	RO	FilmTec	100	-23	42	8	550	10	2	[37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	NF-90	NF	FilmTec	200	-31	60	8	280	10	3	[37]

Organic compounds properties										Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	logKow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	References
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	BW-400	RO	FilmTec	100	-4.5	57	8	620	10	0	[37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	-19	40	8	410	10	3	[37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	RE BLR	RO	FilmTec	100	-21	47	8	480	10	33	[37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	NE90	NF	Saehan	200	-24	52	8	240	10	0	[37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	-15	54	8	340	10	6	[37]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	150	-1.68	50	3.5	800	30	30.88	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	150	-3.51	50	5.5	800	30	33.09	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	150	-10.3	50	9.45	800	30	30.15	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-1.98	47	3.5	800	30	24.26	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-4.73	47	5.5	800	30	19.12	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-11.3	47	9.45	800	30	26.47	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	250	-4.27	63.2	3.5	800	30	17.52	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	250	-9.54	63.2	5.5	800	30	18.98	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	250	-12.75	63.2	9.45	800	30	15.33	[19,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	-20	50	7.5	800	30	19	[19,29,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	-5	47	7.5	800	30	18	[19,29,31, ChemBIO]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	-9.96	63.2	7.5	800	30	20	[19,29,31, ChemBIO]

DB2

	Organic compounds properties									Membrane characteristics					Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
1,4-Dioxane	HL	88	-0.27	-0.17	0	0.71	0.66	0.52	0.59	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	46.1	[39,42]
1,4-Dioxane	HL	88	-0.27	-0.17	0	0.71	0.66	0.52	0.59	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	47.52	[39,42]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	87.4	[35,36,39]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	55.3	[35,36,39]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	98	[35,36,39]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	95.2	[35,36,39]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	88.66	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	87.68	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	86.7	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	89.94	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	90.07	[39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	94.33	[39,45]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	80.6	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	92.7	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	95.1	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	98.7	[38]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	63.2	[24]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	90.9	[24]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	79.28	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	85.77	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	84.79	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	89.32	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	95.39	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	96.81	[19,39]
17β-Estradiol	HB	272.39	4.01	4.01	1.56	1.39	0.85	0.65	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	8	500	2.5	83	[4,19]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	75.8	[19]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	90.9	[19]
17β-Estradiol (E2) 17 - Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	78	[19,35,36]
17β-Estradiol (E2) 17 - Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	37.2	[19,35,36]
17β-Estradiol (E2) 17 - Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	95.5	[19,35,36]
17β-Estradiol (E2) 17 - Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	89.8	[19,35,36]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	22	[13,24]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	21	[13,24]
2-(1H)-Quinoline (Oxine, 8-Quinolinol)	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	21	[19]
2-(1H)-Quinoline (Oxine, 8-Quinolinol)	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	21.5	[19]

	Organic compounds properties									Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
2-(2-Butoxyethoxy)ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-5	47	7.5	800	30	81	[19,31]
2-(2-Butoxyethoxy)ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	0.99	-20	50	7.5	800	30	80	[19,31]
2-(2-Butoxyethoxy)ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.97	-9.96	63.2	7.5	800	30	61	[19,31]
2,4-Dinitrophenol	HL	184.11	1.73	-0.9	4.65	1.01	0.77	0.35	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	90	[19,24, ChemBio, (KOWWIN, EPA)]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	38	[19]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	21	[13,19,24]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	38	[13,19,24]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	25	[19]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	31.7	[19]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	32	[13,19,24]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	25	[13,19,24]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	21.42	[13,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	20.77	[13,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	19.78	[13,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	23.67	[13,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	74.82	[13,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	77.66	[13,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	71.2	[24]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	689.47	75	28.9	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	27.7	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1378.95	75	84.7	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	7.6	1034.21	75	74.4	[19,24,36]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	75.2	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	21.4	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	68.5	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	83.7	[38]
Acetaminophen (paracetamol)	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	47.9	[24,35,36]
Acetaminophen (paracetamol)	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	0	[24,35,36]
Acetaminophen (paracetamol)	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	76.7	[24,35,36]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	99.18	[19,12]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	97.55	[19,12]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	61.44	[19,12]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10.01	2500	10	93.47	[13,19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	98.13	[13,19]
Aminopyrine	HL	231	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	90.49	[20,33]
Aminopyrine	HL	231	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	88.31	[20,33]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	98	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	97	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	94	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	97.7	[19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	97	[19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	97	[13,19,24]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	98	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	85	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	75	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	74.8	[19]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	85.2	[19]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	91.02	[13,24,12, ChemBio]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	89.39	[13,24,12, ChemBio]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	11.86	[13,24, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	98.78	[13,24, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	87.51	[13,24, ChemBio]
Atenolol	HL	266	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	78.45	[13,24,33, ChemBio]
Atenolol	HL	266	0.16	-2.27	2.92	1.78	0.7805	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	79.48	[13,24,33, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.7805	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	90	[13,24,34, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	85	[13,24,34, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	75	[13,24,34, ChemBio]
Atenolol	HL	266.3	0.16	-2.21	2.92	1.78	0.78	0.61	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	89	[13,24, ChemBio]
Atenolol	HL	266.3	0.16	-2.21	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	95	[13,24, ChemBio]
Atrazin	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	68	[19,38]

	Organic compounds properties									Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Atrazin	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	50	[19,38]
Atrazin	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	34	[19,38]
Atrazin	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	83.8	[19]
Atrazin	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	97.8	[19]
Atrazin	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	91.3	[19]
Atrazin	HB	216	2.61	2.61	3.43	1.26	1	0.55	0.74	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	91	[13,24]
Atrazin	HB	216	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	81.3	[24]
Atrazin	HB	216	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	95	[24]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	88.6	[39]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	95.7	[39]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	94.5	[39]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	98.2	[39]
Atropine	HL	289.38	1.83	-1.22	0.74	1.26	0.97	0.87	0.92	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	95	[13,19,24]
Atropine	HL	289.38	1.83	-1.22	0.74	1.26	0.97	0.87	0.92	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	98	[13,19,24]
Bentazon	HB	240.28	2.34	1.15	1.29	1.18	0.79	0.73	0.76	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	98.1	[19]
Bentazon	HB	240.28	2.34	2.34	1.29	1.18	0.79	0.73	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	98	[13,19,24]
Bisphenol A	HB	228	3.32	3.86	0.71	1.25	0.83	0.75	0.79	XLE	LPRO(low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	7	500	2.5	83	[4,19]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	54.7	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	57.29	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	54.69	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	59.23	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	89.01	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	90.07	[19,39]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	45.4	[24]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	90.4	[24]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	70.7	[35,36,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	25.6	[35,36,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	93.9	[35,36,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	86.7	[35,36,38]
Bis-phenol A	HB	228.29	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	90.4	[19]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	50.4	[38]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	91.5	[38]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	96.5	[38]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	NE90	NF	Saehan	0.98	-24	52	8	240	10	17	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	0	[24,37]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-15	54	8	340	10	34	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	0.99	-19	40	8	410	10	16	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	RE BLR	RO	FilmTec	1	-21	47	8	480	10	50	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	LE-440	RO	FilmTec	1	-23	42	8	550	10	7	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	BW-400	RO	FilmTec	1	-4.5	57	8	620	10	16	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	RE-BLR	RO	Dow-Filmtec	1	-20.9	46.8	8	480	5.5	50	[19]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	54.6	[35,36,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	5.4	[35,36,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	100	[35,36,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	88.8	[35,36,38]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	8	500	2.5	70	[4,19]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	50	[19]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	80.8	[19]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	62.7	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	84.8	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	69.2	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	93.3	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	50	[24]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	80.8	[24]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	69.34	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	65.77	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	63.49	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	65.75	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	90.07	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.77	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	93.26	[19,39]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	0.99	-20	50	7.5	800	30	81	[19,31]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.97	-9.96	63.2	7.5	800	30	59	[19,31]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-5	47	7.5	800	30	79	[19,31]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	96.33	[19,32]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	88.16	[19,32]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	30.51	[19,32]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	99.84	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.99	2500	10	99.38	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.68	2500	10	85.35	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	86.28	[13,19]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	84.41	[19,33]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	82	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	84	[19,34]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	82	[19,34]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	64	[19,34]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	66.9	[24,35,36]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	8.9	[24,35,36]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	92.6	[24,35,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	689.47	75	93.4	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	95.8	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1378.95	75	98.1	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	7.6	1034.21	75	93.6	[19,36]
Carbamazepine	HB	236.27	2.45	2.45	3.66	1.2	0.92	0.58	0.73	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	8	500	2.5	91	[4,19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	90.8	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	70	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	88.4	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	95	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	1	-23.02	41.5	8	510	5.5	76	[19]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	78.8	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	91.3	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	80.4	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	95.9	[38]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	88	[13,24]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	95	[13,24]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	79.34	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	80.64	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	83.23	[19,39]

	Organic compounds properties									Membrane characteristics						Operating conditions			
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	83.87	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	90.07	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	92.2	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	70	[24]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	90.8	[24]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NE90	NF	Saehan	0.98	-24	52	8	240	10	70	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	70	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-15	54	8	340	10	79	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	0.99	-19	40	8	410	10	83	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	RE BLR	RO	FilmTec	1	-21	47	8	480	10	99	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	LE-440	RO	FilmTec	1	-23	42	8	550	10	89	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	BW-400	RO	FilmTec	1	-4.5	57	8	620	10	96	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-14.9	54.4	8	340	5.5	79	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NF-90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	70	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NE-90	NF	Saehan	0.98	-23.6	51.7	8	240	5.5	70	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.99	-19.42	39.8	8	410	5.5	83	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	1	-23.02	41.5	8	510	5.5	89	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	BW-400	RO	Dow-Filmtec	1	-4.49	56.8	8	620	5.5	96	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NE-90	NF	Saehan	0.98	-23.6	51.7	8	240	5.5	52	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NF-90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	35	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-14.9	54.4	8	340	5.5	84	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.99	-19.42	39.8	8	410	5.5	69	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	1	-23.02	41.5	8	510	5.5	69	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	BW-400	RO	Dow-Filmtec	1	-4.49	56.8	8	620	5.5	78	[19]
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NE90	NF	FilmTec	0.98	-24	52	8	240	10	52	[19,37]
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	35	[19,24,37]
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	UTC-70	LPRO (low pressure reverse osmosis).)	Saehan	1	-15	54	8	340	10	84	[19,37]
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	0.99	-19	40	8	410	10	69	[19,37]
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	RE BLR	RO	FilmTec	1	-21	47	8	480	10	90	[19,37]

	Organic compounds properties									Membrane characteristics			Operating conditions							
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	LE-440	RO	FilmTec	1	-23	42	8	550	10	69	[19,37]
Carbontetrachloride (perchloromethane)	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	BW-400	RO	FilmTec	1	-4.5	57	8	620	10	78	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NE90	NF	Saehan	0.98	-24	52	8	240	10	1	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	0	[19,24,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-15	54	8	340	10	9	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	0.99	-19	40	8	410	10	10	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	RE BLR	RO	FilmTec	1	-21	47	8	480	10	34	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	LE-440	RO	FilmTec	1	-23	42	8	550	10	3	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	BW-400	RO	FilmTec	1	-4.5	57	8	620	10	4	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NF-90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	1	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NE-90	NF	Saehan	0.98	-23.6	51.7	8	240	5.5	1	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	UTC-70	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	1	-14.9	54.4	8	340	5.5	9	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.99	-19.42	39.8	8	410	5.5	10	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	BW-400	RO	Dow-Filmtec	1	-4.49	56.8	8	620	5.5	4	[19]
Chlorotoluron	HB	212.68	2.41	0.41	2.74	1.29	0.83	0.45	0.61	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	81.1	[19]
Chlorotoluron	HB	212.68	2.41	2.41	2.74	1.29	0.83	0.45	0.61	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	81	[19,24]
CIPROFLOXACIN	HL	331.35	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	NF90	NF	Dow/FilmTec	0.97	-24.9	62	6.5	4100	15	99.4	[43,44, ChemBio, ChemSpider]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	90.2	[13,24,12, ChemBio]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	87.34	[13,24,12, ChemBio]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	18.22	[13,24,12, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	99.39	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10	2500	10	98.94	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.7	2500	10	97.26	[13, 24, Chem-Bio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	82.94	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-10.82	43	7	2500	10	87.31	[13,24, ChemBio]
Clenbuterol	HL	277	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	80.51	[13,24,33, ChemBio]
Clenbuterol	HL	277	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	78.34	[13,24,33, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	71	[13,24,34, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	87	[13,24, ChemBio]

	Organic compounds properties									Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,24,12,37]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	98.37	[13,24,12,37]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	84.32	[13,24,12,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	94.96	[13,24,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.99	2500	10	100	[13,24,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-12.49	43	5.73	2500	10	70	[13,24,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-24.65	43	9.5	2500	10	98.65	[13,24,37]
Clofibric acid	HB	215	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	88.08	[13,24,33,37]
Clofibric acid	HB	215	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	86.36	[13,24,33,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	98	[13,24,33,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	97	[13,24,33,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	95	[13,24,33,37]
Clofibric acid	HB	214	2.57	-0.2	0.79	0.95	0.66	0.41	0.52	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	86	[13,24,37]
Clofibric acid	HB	214	2.57	-0.2	0.79	0.95	0.66	0.41	0.52	LE-440	RO	FilmTec	1	-23	42	8	550	10	87	[13,19,24,37]
Clofibric acid	HB	214.7	2.57	-0.2	0.79	1.2	0.66	0.68	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	98	[13,24,37]
Clofibric acid	HB	214.7	2.57	-0.2	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,24,37]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,19,24,12]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	93.47	[13,19,24,12]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	33.05	[13,19,24,12]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.37	2500	10	98.76	[13,19,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10.01	2500	10	99.38	[13,19,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.7	2500	10	92.99	[13,19,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.5	2500	10	91.9	[13,19,24]
Cyclophosphamide	HL	261	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	88.08	[13,19,24,33]
Cyclophosphamide	HL	261	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	84.3	[13,19,24,33]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	95	[13,19,24,34]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	94	[13,19,24,34]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	84	[13,19,24,34]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	96.5	[19]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	93.6	[19]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	94	[13,19,24]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	97	[13,19,24]
Dichloroacetic acid	HL	129	0.92	-3.54	2.4	0.7	0.69	0.52	0.6	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	89	[24,32,37]
Dichloroacetic acid	HL	129	0.92	-3.54	2.4	0.7	0.69	0.52	0.6	LE-440	RO	FilmTec	1	-23	42	8	550	10	77	[19,32,37]
Diclofenac	HB	296.15	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,24,12,37]
Diclofenac	HB	296.15	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	100	[13,24,12,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	99.14	[13,24,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.99	2500	10	99.66	[13,24,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-24.65	43	9.5	2500	10	98.4	[13,24,37]
Diclofenac	HB	296	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	89.23	[13,24,33,37]
Diclofenac	HB	296	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	86.7	[13,24,33,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	98	[13,24,34,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	98	[13,24,34,37]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	94	[13,24,34,37]
Diclofenac	HB	296	4.51	1.62	1.48	1.13	0.91	0.45	0.64	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	90	[24,37]
Diclofenac	HB	296	4.51	1.62	1.48	1.13	0.91	0.45	0.64	LE-440	RO	FilmTec	1	-23	42	8	550	10	91	[19,37]
Diclofenac	HB	296.2	4.51	1.62	1.48	1.16	0.91	0.85	0.9	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	99	[13,24,37]
Diclofenac	HB	296.2	4.51	1.62	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,24,37]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	98.4	[35,36, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	75.4	[35,36, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	98.7	[35,36, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	89.9	[35,36, (KOWWIN, EPA)]
Dikegulac	HB	274.27	1.35	-2.05	2.97	1.19	0.95	0.69	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	95	[13,24, (KOWWIN, EPA)]
Diuron	HB	233.1	2.68	1.97	1.12	1.31	0.76	0.42	0.56	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	72.8	[19]
Diuron	HB	233.1	2.68	2.68	1.12	1.31	0.76	0.42	0.56	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	73	[13,19,24]
Estriol (E3)	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	74.8	[35,36, (KOWWIN, EPA)]

	Organic compounds properties									Membrane characteristics						Operating conditions			
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Estriol (E3)	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	23.7	[35,36, (KOWWIN, EPA)]
Estriol (E3)	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	96.8	[35,36, (KOWWIN, EPA)]
Estriol (E3)	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	93.7	[35,36, (KOWWIN, EPA)]
Estrone	HB	270	3.13	3.13	3.46	1.39	0.85	0.67	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	90	[13,24]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	76.39	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	83.85	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	81.57	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	86.11	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	93.26	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	91.49	[19,39]
Estrone	HB	270	3.13	3.46	3.46	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	76.4	[19]
Estrone	HB	270	3.13	3.46	3.46	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	90.3	[19]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	689.47	75	92	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	95.2	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1378.95	75	95.7	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	7.6	1034.21	75	91.4	[19,36]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	77.3	[19]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	90.3	[19]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	90	[19]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	92.2	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	93	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	92	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	98	[38]
Estrone (E1)	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	79.2	[24,35,36]
Estrone (E1)	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	39	[24,35,36]
Estrone (E1)	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	92.6	[24,35,36]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	8.7	[19]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	9	[13,19,24]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	38	[13,19,24]
Fenoprofen	HB	242.27	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	97.14	[13,24,12, ChemBIO]
Fenoprofen	HB	242.27	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	69.91	[13,24,12, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.4	2500	10	71.37	[13,24, ChemBIO]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10.01	2500	10	99.23	[13,24, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-24.65	43	9.48	2500	10	98.9	[13,24, ChemBIO]
Fenoprofen	HB	242	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	91.29	[13,24,33, ChemBIO]
Fenoprofen	HB	242	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	73.87	[13,24,33, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	97	[13,24,34, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	91	[13,24,34, ChemBIO]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	87	[13,24,34, ChemBIO]
Fenoprofen	HB	242.3	3.9	0.37	1.6	1.16	0.93	0.74	0.83	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	99	[13,24, ChemBIO]
Fenoprofen	HB	242.3	3.9	0.37	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	100	[13,24, ChemBIO]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	90.43	[39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	92.32	[39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	91.73	[39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	94.46	[39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	95.38	[39]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	0.99	-20	50	7.5	800	30	2	[19,31]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-5	47	7.5	800	30	18	[19,31]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.97	-9.96	63.2	7.5	800	30	16	[19,31]
Gembfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	90.23	[39]
Gembfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	91.83	[39]
Gembfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	91.43	[39]
Gembfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	96.42	[39]
Gembfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	96.08	[39]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,24,12, ChemBIO]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	98.77	[13,24,12, ChemBIO]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	40.68	[13,24,12, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.4	2500	10	97.26	[13,24, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-24.65	43	9.5	2500	10	98.57	[13,24, ChemBIO]
Gemfibrozil	HB	250	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	91.4	[13,24,33, ChemBIO]
Gemfibrozil	HB	250	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	83.04	[13,24,33, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	98	[13,24,34, ChemBIO]

	Organic compounds properties									Membrane characteristics			Operating conditions							
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	99	[13,24,34, ChemBIO]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	98	[13,24,34, ChemBIO]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	86.5	[13,24,35,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	27.1	[13,24,35,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	97.4	[13,24,35,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	689.47	75	95.2	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	67.5	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1378.95	75	98.1	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	0.963	-15	56.6	7.6	1034.21	75	96.5	[13,24,36]
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	98	[13,24, ChemBio, (KOWWIN, EPA)]
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,24, ChemBio, (KOWWIN, EPA)]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	98.1	[19]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	90	[19]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	98	[13,19,24]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	90	[13,19,24]
Glycerol	HL	92.1	-1.76	-1.76	3.2	0.8	0.59	0.53	0.56	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	12	[13,24, ChemBio, (KOWWIN, EPA)]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,24,12,38]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	98.77	[13,24,12,38]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	53.39	[13,24,12,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.4	2500	10	86.58	[13,24]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-24.65	43	9.48	2500	10	98.99	[13,24,38]
Ibuprofen	HB	206	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	89	[13,24,33,38]
Ibuprofen	HB	206	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	83.95	[13,24,33,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	98	[13,24,34,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	97	[13,24,34,38]

	Organic compounds properties									Membrane characteristics				Operating conditions						
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	84	[13,24,34,38]
Ibuprofen	HB	206	3.97	0.77	1.29	1.31	0.77	0.64	0.7	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	86	[24,37]
Ibuprofen	HB	206	3.97	0.77	1.29	1.31	0.77	0.64	0.7	LE-440	RO	FilmTec	1	-23	42	8	550	10	91	[24,37]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	77.3	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	96.2	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	91.4	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	97.6	[38]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.33	0.73	0.7	0.71	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	99	[13,24]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.33	0.73	0.7	0.71	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,24]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	89.03	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	92.72	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	89.93	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	95.85	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	97.46	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	75.5	[24]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	96	[24]
ISOPROPANOL	HL	60.11	0.05	-0.18	2.67	0.66	0.57	0.56	0.56	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	0.99	-20	50	7.5	800	30	62	[19,31]
ISOPROPANOL	HL	60.11	0.05	-0.18	2.67	0.66	0.57	0.56	0.56	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-5	47	7.5	800	30	63	[19,31]
Isoproturon	HB	206.29	2.87	1.68	2.4	1.42	0.69	0.63	0.66	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	93.2	[19]
Isoproturon	HB	206.29	2.87	2.87	2.4	1.42	0.69	0.63	0.66	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	93	[13,19,24]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,24,12, ChemBio]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	97.96	[13,24,12, ChemBio]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	76.69	[13,24,12, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.4	2500	10	85.64	[13,24, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.99	2500	10	99.32	[13,24, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-24.65	43	9.48	2500	10	97.98	[13,24, ChemBio]
Ketoprofen	HB	254	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	88.77	[13,24,33, ChemBio]
Ketoprofen	HB	254	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	84.07	[13,24,33, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	96	[13,24,34, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	96	[13,24,34, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	95	[13,24,34, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	99	[13,24]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,24]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	91.43	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	92.13	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	91.73	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	95.5	[13,24,39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	95.15	[13,24,39]
Lindane	HB	290.83	3.72	2.4	1	0.91	0.86	0.7	0.78	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	90.8	[19]
Lindane	HB	290.83	3.72	3.72	1	0.91	0.86	0.7	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	91	[13,19,24]
Linuron	HB	249.1	3.2	3.2	9.35	1.21	0.89	0.53	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	53	[13,29, ChemBio]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	38.3	[19]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	38	[13,19,24]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	5	[13,19,24]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	0.99	-20	50	7.5	800	30	2	[19,31]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-5	47	7.5	800	30	10	[19,31]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.97	-9.96	63.2	7.5	800	30	4	[19,31]
Metobromuron	HB	259.1	2.38	3.4	0.11	1.34	0.75	0.5	0.61	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	78.4	[19]
Metobromuron	HB	259.1	2.38	2.38	0.11	1.34	0.75	0.5	0.61	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	78	[13,19,24]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	90.612	[13,24,12, ChemBio]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	89.79	[13,24,12, ChemBio]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	11.02	[13,24,12, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.98	2500	10	92.4	[13,24, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.68	2500	10	97.56	[13,24, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	88.35	[13,24, ChemBio]
Metoprolol	HL	267	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	81.09	[13,24,33, ChemBio]
Metoprolol	HL	267	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	81.09	[13,24,33, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	93	[13,24,34, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	88	[13,24,34, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	78	[13,24,34, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Metoprolol	HL	267.4	1.88	-0.77	2.16	1.86	0.86	0.62	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	90	[13,24, ChemBio]
Metoprolol	HL	267.4	1.88	-0.77	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	95	[13,24, ChemBio]
Metoxuron	HL	228.68	1.64	1.64	3.03	1.29	0.82	0.59	0.7	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	88.5	[19]
Metoxuron	HL	228.68	1.64	1.64	3.03	1.29	0.82	0.59	0.7	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	89	[13,19,24]
Metribuzin	HL	214.29	1.7	0.47	4.44	1.17	0.85	0.64	0.74	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	97	[13,24, ChemBio, (KOWWIN, EPA)]
Metronidazole	HL	171.16	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	47.3	[19]
Metronidazole	HL	171.16	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	82.5	[19]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	53.7	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	83.5	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	29	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	91.5	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	45.74	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	46.38	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	42.15	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	45.4	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	70.92	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	73.4	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	47.3	[19,24]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	82.5	[19,24]
Monolinuron	HB	214.65	2.3	2.83	0.3	1.22	0.73	0.65	0.69	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	78.8	[19]
Monolinuron	HB	214.65	2.3	2.3	0.3	1.22	0.73	0.65	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	79	[13,19,24]
Monomethylphtalate	HL	180.16	1.13	-2.27	9.78	0.99	0.84	0.47	0.63	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	94	[13,24, ChemBio, (KOWWIN, EPA)]
MTBE	HL	88.15	0.94	0.94	1.43	0.77	0.67	0.59	0.63	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	60	[13,24, ChemBio, (KOWWIN, EPA)]
NAC (standar)	HB	201.22	2.36	2.19	2.26	1.24	0.86	0.42	0.6	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	8	500	2.5	79	[4,19]
N-acetyl-L-tyrosine	HL	223.23	1.32	-2.18	5.31	1.33	0.84	0.6	0.71	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	94	[13,24, ChemBio, (KOWWIN, EPA)]
N-acetyl-L-tyrosine	HL	223.23	1.32	-2.18	5.31	1.33	0.84	0.6	0.71	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	70	[13,24, ChemBio, (KOWWIN, EPA)]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	88.77	[24,33]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	77.53	[24,33]
Naproxen	HB	230	3.18	0.34	2.74	1.26	0.69	0.54	0.61	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	89	[24,37]

	Organic compounds properties									Membrane characteristics			Operating conditions							
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Naproxen	HB	230	3.18	0.34	2.74	1.26	0.69	0.54	0.61	LE-440	RO	FilmTec	1	-23	42	8	550	10	75	[19,37]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	76.8	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	96.2	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	82.4	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	97.1	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.76	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	95	[13,24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.76	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	91.53	[24,39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	94.12	[24,39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	92.03	[24,39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	95.38	[24,39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	94.81	[24,39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	75.6	[24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	96	[24]
NDMA (N-NITROSODI-METHYLAMINE)	HL	74.08	-0.57	-0.57	3.64	0.7	0.61	0.44	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	7	[13,24, ChemBio, (KOWWIN, EPA)]
NDMA (N-NITROSODI-METHYLAMINE)	HL	74.08	-0.57	-0.57	3.64	0.7	0.61	0.44	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	0	[13,24, ChemBio, (KOWWIN, EPA)]
NDPA (DIPHENYLNI-TROSAMINE)	HB	198.23	3.13	1.36	3.25	1.16	0.68	0.53	0.6	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	45	[13,24, ChemBio, (KOWWIN, EPA)]
NDPA (DIPHENYLNI-TROSAMINE)	HB	198.23	3.13	1.36	3.25	1.16	0.68	0.53	0.6	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	19	[13,24, ChemBio, (KOWWIN, EPA)]
Nonylphenol	HB	220.35	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	83.3	[19]
Nonylphenol	HB	220.35	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	97.8	[19]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	91.7	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	91.3	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	97.6	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	98.8	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	83.3	[24]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	90.3	[24]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	100	[13,19,24,12]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	94.28	[13,19,24,12]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	22.88	[13,19,24,12]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.38	2500	10	97.98	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10.01	2500	10	99.22	[13,19,24]

	Organic compounds properties									Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.68	2500	10	95.01	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	96.26	[13,19,24]
Pentoxifylline	HL	278	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	80.29	[13,19,24,33]
Pentoxifylline	HL	278	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	82.92	[13,19,24,33]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	96	[13,19,24,34]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	92	[13,19,24,34]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	85	[13,19,24,34]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	De-HL	NF	GE Osmonics	0.97	-11	43	7	500	5.5	98.6	[19]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	94	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	99	[13,19,24]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NF-90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	39	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NE-90	NF	Saehan	0.98	-23.6	51.7	8	240	5.5	57	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.99	-19.42	39.8	8	410	5.5	71	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	RE-BLR	RO	Saehan	1	-20.9	46.8	8	480	5.5	87	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	1	-23.02	41.5	8	510	5.5	76	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	BW-400	RO	Dow-Filmtec	1	-4.49	56.8	8	620	5.5	71	[19]
Perchloroethene (tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NE90	NF	Saehan	0.98	-24	52	8	240	10	57	[19,37]
Perchloroethene (tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	39	[19,37]
Perchloroethene (tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-15	54	8	340	10	57	[19,37]
Perchloroethene (tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	0.99	-19	40	8	410	10	71	[19,37]
Perchloroethene (Tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	RE BLR	RO	FilmTec	1	-21	47	8	480	10	87	[19,37]
Perchloroethene (Tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	LE-440	RO	FilmTec	1	-23	42	8	550	10	76	[19,37]
Perchloroethene (Tetrachloroethylene)	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	BW-400	RO	FilmTec	1	-4.5	57	8	620	10	71	[19,37]
Phenacetin	HL	179	1.58	1.68	2.4	1.39	0.68	0.42	0.53	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	45	[19,37]
Phenacetin	HL	179	1.58	1.68	2.4	1.39	0.68	0.42	0.53	LE-440	RO	FilmTec	1	-23	42	8	550	10	56	[19,37]
Phenacetine	HL	179	1.58	1.68	1.67	1.35	0.69	0.42	0.54	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	7	500	2.5	74	[4,19]
Phenacetine	HL	179.22	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	41.3	[19]
Phenacetine	HL	179.22	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	75	[19]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	50.4	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	80	[38]

	Organic compounds properties									Membrane characteristics			Operating conditions							
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	45.7	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	80.4	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	41.49	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	39.21	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	37.9	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	40.17	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	72.34	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	70.92	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	41.3	[24]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	75	[24]
Phenazon	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	82	[13,19,24,34]
Phenazon	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	73	[13,19,24,34]
Phenazon	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	48	[13,19,24,34]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	94.28	[13,19,24,12]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	84.9	[13,19,24,12]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	34.74	[13,19,24,12]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.38	2500	10	97.36	[13,19,24]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10.01	2500	10	95.18	[13,19,24]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.7	2500	10	45.45	[13,19,24]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.5	2500	10	72.73	[13,19,24]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	79.83	[13,19,24,33]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	72.61	[13,19,24,33]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	60.4	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	85.9	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	65.7	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	95	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	72.95	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	76.51	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	74.56	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF 200	NF	Dow-Filmtec	0.981	-30	64	7	483	8	78.77	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	91.13	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	94.68	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	52.5	[24]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	85	[24]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	5.5	85	[19]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	0.96	-20	37.5	7.5	276	5.5	52.5	[19]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	92.65	[13,24,12, ChemBio]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	75.1	[13,24,12, ChemBio]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	12.29	[13,24,12, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	94.3	[13,24, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.98	2500	10	91.26	[13,24, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	75.1	[13,24, ChemBio]
Pindolol	HL	248	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	81.09	[13,24,33, ChemBio]
Pindolol	HL	248	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	71.69	[13,24,33, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	79	[13,24,34, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	75	[13,24,34, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	32	[13,24,34, ChemBio]
Pindolol	HL	248.3	1.75	-0.32	1.28	1.46	0.8	0.72	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	75	[13,24, ChemBio]
Pindolol	HL	248.3	1.75	-0.32	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	83	[13,24, ChemBio]
Primidone	HL	218.25	0.91	-0.62	2.82	1.1	0.79	0.74	0.76	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	8	500	2.5	87	[4,19]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	82	[19,29,37]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	LE-440	RO	FilmTec	1	-23	42	8	550	10	83	[19,37
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	NF-90	NF	Dow-Filmtec	0.98	-27	59.8	7.5	280	3.8	82	[19]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	1	-23.02	41.5	8	510	3.8	83	[19]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	81	[13,24,34, ChemBio]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	76	[13,24,34, ChemBio]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	55	[13,24,34, ChemBio]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	86.53	[13,2412, ChemBio]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	75.1	[13,2412, ChemBio]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	8.9	[13,2412, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	98.94	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.98	2500	10	90.28	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.7	2500	10	96.88	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.5	2500	10	74.42	[13,24, ChemBio]

	Organic compounds properties									Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Propranolol	HB	259	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	81.32	[13,24,33, ChemBio]
Propranolol	HB	259	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	74.1	[13,24,33, ChemBio]
Propranolol	HB	259.4	3.48	0.55	2.43	1.41	0.92	0.88	0.9	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	75	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.55	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	87	[13,24, ChemBio]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	92.65	[13,24,12, ChemBio]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	93.06	[13,24,12, ChemBio]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	19.49	[13,24,12, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	98.56	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	9.96	2500	10	99.24	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.68	2500	10	98.93	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	96.88	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-10.82	43	7	2500	10	93.44	[13,24, ChemBio]
Salbutamol	HL	239	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	76.96	[13,24,33, ChemBio]
Salbutamol	HL	239	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	79.71	[13,24,33, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	93	[13,24,34, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	86	[13,24,34, ChemBio]
Salbutamol	HL	239.3	0.64	-1.38	1.38	1.36	0.86	0.74	0.8	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	94	[13,24, ChemBio]
simazin	HB	201.66	2.18	3.5	0.01	1.37	0.85	0.48	0.64	TS-80	NF	Trisep	0.98	-14	48	7	500	5.5	81.8	[19]
Simazin	HB	201.66	2.18	2.18	0.01	1.37	0.85	0.48	0.64	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	82	[13,19,24]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	93.06	[13,24,12, ChemBio]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	89.79	[13,24,12, ChemBio]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	11.86	[13,24,12, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	99.01	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-27.84	48	10	2500	10	99.24	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.7	2500	10	96.19	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.5	2500	10	98.7	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-10.82	43	7	2500	10	90	[13,24, ChemBio]
Sotalol	HL	272	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	81.2	[13,24,33, ChemBio]

	Organic compounds properties									Membrane characteristics					Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Sotalol	HL	272	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	75.47	[13,24,33, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	88	[17,23,34, ChemBio]
Sotalol	HL	272.4	0.24	-1.7	6.79	1.47	0.96	0.63	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	90	[13,24, ChemBio]
Sucrose	HL	342.3	-3.7	-3.7	9.61	1.27	0.96	0.86	0.91	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	99	[13,24, ChemBio, (KOWWIN, EPA)]
Sucrose	HL	342.3	-3.7	-3.7	9.61	1.27	0.96	0.86	0.91	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	98	[13,24, ChemBio, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	78.3	[35,36,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	18.1	[35,36,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	98.9	[35,36,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	97.2	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	79.7	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	22.4	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	99.7	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	98.7	[35,36,45, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8	1723.69	75	76.4	[35,36,38]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7	1034.21	75	21.5	[35,36,38]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	8.1	1034.21	75	98.8	[35,36,38]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	0.963	-15	56.6	7.9	1034.21	75	96.7	[35,36,38]
Sulfamethoxazole	HL	253.28	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF270	NF	Dow/FilmTec	0.97	-21.6	28	6.5	4100	15	62.8	[43,38,39]
Sulfamethoxazole	HL	253.28	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow/FilmTec	0.97	-24.9	62	6.5	4100	15	98.7	[43,38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	6.32	1.33	0.71	0.58	0.64	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	0.98	-19.42	39.8	7	500	2.5	70	[4,19]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	0.96	-10.78	37.5	7	379	3	61.6	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	0.98	-48	58	7	379	3	94.5	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	0.96	-26.3	39.3	7	379	8	52.4	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	0.98	-38.2	54.2	7	379	8	96.5	[38]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	0.967	-28	33.1	7	483	8	84.25	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	0.969	-14	70.7	7	483	8	84.35	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	0.964	-24	62.3	7	483	8	84.05	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF 90	NF	Dow-Filmtec	0.989	-32	42.5	7	345	8	96.19	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	0.994	-22	53.1	7	345	8	95.27	[38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.96	-10.78	58	7	483	8	58.9	[24]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	0.98	-48.04	39.3	7	276	3	94.4	[24]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	7.5	2500	10	99.18	[13,24,32, ChemBio]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-30	41	7.5	2500	10	88.98	[13,24,32, ChemBio]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-12.5	35	6.7	2000	80	16.52	[13,24,32, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	0.99	-5.65	48	3.39	2500	10	98.25	[13,24, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	1.03	43	2.7	2500	10	98.63	[13,24, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14.47	43	9.48	2500	10	89.95	[13,24, ChemBio]
Terbutaline	HL	225	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	0.99	-14	48	7	1500	0.5	74.44	[13,24,33, ChemBio]
Terbutaline	HL	225	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-11	43	7	1500	0.5	72.03	[13,24,33, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	75	87	[13,24,34, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	82.5	86	[13,24,34, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.98	-14	41	7.9	2500	90	78	[13,24,34, ChemBio]
Terbutaline	HL	225.3	0.9	-1.64	1.8	1.34	0.85	0.7	0.77	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	0.98	-14.32	48	7	2500	10	89	[13,24, ChemBio]
Terbutaline	HL	225.3	0.9	-1.64	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	0.97	-10.82	43	7	2500	10	93	[13,24, ChemBio]
Trichloroacetic acid	HL	163	1.33	-2.42	1.5	0.89	0.67	0.41	0.52	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	87	[24,31,37]
Trichloroacetic acid	HL	163	1.33	-2.42	1.5	0.89	0.67	0.41	0.52	LE-440	RO	FilmTec	1	-23	42	8	550	10	95	[19,31,37]
Trichloroethene	HB	131	2.29	2.29	0.95	0.78	0.66	0.36	0.49	RE-BLR	RO	Saehan	1	-20.9	46.8	8	480	5.5	33	[19]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	NE90	NF	Saehan	0.98	-24	52	8	240	10	0	[19,37]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	NF-90	NF	FilmTec	0.99	-31	60	8	280	10	3	[19,24,37]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	1	-15	54	8	340	10	6	[19,37]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	0.99	-19	40	8	410	10	3	[19,37]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	RE BLR	RO	FilmTec	1	-21	47	8	480	10	33	[19,37]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	LE-440	RO	FilmTec	1	-23	42	8	550	10	2	[19,37]
Trichloroethene (trichloroethylene)	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	BW-400	RO	FilmTec	1	-4.5	57	8	620	10	0	[19,37]

	Organic compounds properties									Membrane characteristics						Operating conditions			
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	0.99	-1.68	50	3.5	800	30	30.88	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	0.99	-3.51	50	5.5	800	30	33.09	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	0.99	-10.3	50	9.45	800	30	30.15	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-1.98	47	3.5	800	30	24.26	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-4.73	47	5.5	800	30	19.12	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-11.3	47	9.45	800	30	26.47	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	0.97	-4.27	63.2	3.5	800	30	17.52	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	0.97	-9.54	63.2	5.5	800	30	18.98	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	0.97	-12.75	63.2	9.45	800	30	15.33	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	0.99	-20	50	7.5	800	30	19	[19,28,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.99	-5	47	7.5	800	30	18	[19,28,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	0.97	-9.96	63.2	7.5	800	30	20	[19,28,31]

DB3

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	99.18	[19,12]
1,4-Dioxane	HL	88	-0.27	-0.17	0	0.71	0.66	0.52	0.59	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	46.1	[39]
1,4-Dioxane	HL	88	-0.27	-0.17	0	0.71	0.66	0.52	0.59	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	47.52	[39]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	87.4	[35,36,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	55.3	[35,36,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	98	[35,36,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	2.64	1.19	0.57	0.48	0.52	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	95.2	[35,36,39,45]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	88.66	[39,35]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	87.68	[39,35]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	86.7	[39,35]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	89.94	[39,35]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	90.07	[39,35]
17α-Ethynyl estradiol	HB	296	3.67	3.98	1.27	1.48	0.57	0.48	0.85	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	94.33	[39,35]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	80.6	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	92.7	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	95.1	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	98.7	[38]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	79.28	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	85.77	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	84.79	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	89.32	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	95.39	[19,39]
17β-Estradiol	HB	272	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	96.81	[19,39]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	63.2	[24]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	90.9	[24]
17β-Estradiol	HB	272.39	4.01	4.01	1.56	1.39	0.85	0.65	0.74	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	8	500	2.5	83	[4,19]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	75.8	[19]
17β-Estradiol	HB	272.39	4.01	3.94	1.56	1.39	0.85	0.65	0.74	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	90.9	[19]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	78	[19,35,36]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	37.2	[19,35,36]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	95.5	[19,35,36]
17β-Estradiol	HB	272	4.01	3.94	2.75	1.13	0.58	0.65	0.74	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	89.8	[19,35,36]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	22	[13,19,24]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	21	[13,19,24]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	21	[19]
2-(1H)-Quinoline	HL	145.16	1.26	1.26	3.38	1	0.75	0.36	0.52	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	21.5	[19]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
2-(2-Butoxyethoxy) ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-5	47	7.5	800	30	81	[19,31]
2-(2-Butoxyethoxy) ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	0.99	-20	50	7.5	800	30	80	[19,31]
2-(2-Butoxyethoxy) ethanol	HL	162.22	0.56	0.91	1.41	1.61	0.54	0.52	0.53	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	0.97	-9.96	63.2	7.5	800	30	61	[19,31]
2,4-Dinitrophenol	HL	184.11	1.73	-0.9	4.65	1.01	0.77	0.35	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	90	[13,24, ChemBio, (KOWWIN, EPA)]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	38	[19]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	21	[13,19,24]
2-Ethoxyethanol	HL	90.12	-0.32	-0.32	0.41	1	0.54	0.52	0.53	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	38	[13,19,24]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	25	[19]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	31.7	[19]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	32	[13,19,24]
2-Methoxyethanol	HL	76.1	-0.77	-0.77	0.25	0.87	0.52	0.51	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	25	[13,19,24]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	21.42	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	20.77	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	19.78	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	23.67	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	74.82	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	77.66	[24,39]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	71.2	[19]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	689.47	75	28.9	[36,24]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	27.7	[36,24]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1378.95	75	84.7	[36,24]
Acetaminophen	HL	151	0.46	0.23	1.38	1.14	0.68	0.42	0.53	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	7.6	1034.21	75	74.4	[36,24]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	75.2	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	21.4	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	68.5	[38]
Acetaminophen	HL	151	0.46	0.23	4.55	1.14	0.68	0.42	0.53	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	83.7	[38]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	47.9	[24,35,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	0	[24,35,36]
Acetaminophen	HL	151	0.46	0.23	1.38	0.8	0.53	0.42	0.53	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	76.7	[24,35,36]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	97.55	[19,12]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	61.44	[19,12]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10.01	2500	10	93.47	[13,19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	98.13	[13,19]
Aminopyrine	HL	231	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	90.49	[19,33]
Aminopyrine	HL	231	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	88.31	[19,33]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	98	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	97	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	94	[19,34]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	97.7	[19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	97	[19]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	97	[13,19,24]
Aminopyrine	HL	231.3	1	1	3.19	1.27	0.81	0.66	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	98	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	85	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	75	[13,19,24]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	74.8	[19]
Antipyrine	HL	188.23	0.38	0.38	5.42	1.17	0.78	0.56	0.66	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	85.2	[19]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	91.02	[13,24,12, ChemBio]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	89.39	[13,24,12, ChemBio]
Atenolol	HL	266.34	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	11.86	[13,24,12, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	98.78	[13, 24, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	87.51	[13,24, ChemBio]
Atenolol	HL	266	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	78.45	[13,24,33, ChemBio]
Atenolol	HL	266	0.16	-2.27	2.92	1.78	0.7805	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	79.48	[13,24,33, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.7805	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	90	[13,24,34, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	85	[13,24,34, ChemBio]
Atenolol	HL	266.3	0.16	-2.27	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	75	[13,24,34, ChemBio]
Atenolol	HL	266.3	0.16	-2.21	2.92	1.78	0.78	0.61	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	89	[13,24, ChemBio]
Atenolol	HL	266.3	0.16	-2.21	2.92	1.78	0.78	0.61	0.69	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	95	[13,24, ChemBio]
Atrazine	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	68	[13,19,24,34]
Atrazine	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	50	[13,19,24,34]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Atrazine	HB	215.7	2.61	2.61	3.43	1.26	1	0.55	0.74	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	34	[13,19,24,34]
Atrazine	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	83.8	[19]
Atrazine	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	97.8	[19]
Atrazine	HB	215.68	2.61	2.52	3.43	1.26	1	0.55	0.74	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	91.3	[19]
Atrazine	HB	216	2.61	2.61	3.43	1.26	1	0.55	0.74	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	91	[13,24]
Atrazine	HB	216	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	81.3	[24]
Atrazine	HB	216	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	95	[24]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	88.6	[38]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	95.7	[38]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	94.5	[38]
Atrazine	HB	221.6	2.61	2.52	3.43	1.26	1	0.55	0.74	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	98.2	[38]
Atropine	HL	289.38	1.83	-1.22	0.74	1.26	0.97	0.87	0.92	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	95	[13,24, ChemBio, (KOWWIN, EPA)]
Atropine	HL	289.38	1.83	-1.22	0.74	1.26	0.97	0.87	0.92	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	98	[13,24, ChemBio, (KOWWIN, EPA)]
Bentazon	HB	240.28	2.34	1.15	1.29	1.18	0.79	0.73	0.76	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	98.1	[19]
Bentazon	HB	240.28	2.34	2.34	1.29	1.18	0.79	0.73	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	98	[13,19,24]
Bisphenol A	HB	228	3.32	3.86	0.71	1.25	0.83	0.75	0.79	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	7	500	2.5	83	[4,19]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	54.7	[19,38]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	57.29	[19,38]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	54.69	[19,38]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	59.23	[19,38]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	89.01	[19,38]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	90.07	[19,38]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	45.4	[24]
Bisphenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	90.4	[24]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	70.7	[35,36,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	25.6	[35,36,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	93.9	[35,36,38]
Bis-phenol A	HB	228	3.32	3.86	1.67	1.02	0.77	0.75	0.79	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	86.7	[35,36,38]
Bis-phenol A	HB	228.29	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	90.4	[19]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	50.4	[38]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	91.5	[38]
Bis-phenol A	HB	228	3.32	3.86	2.13	1.25	0.83	0.75	0.79	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	96.5	[38]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	NE90	NF	Saehan	200	0.98	-24	52	8	240	10	17	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	0	[19,37]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-15	54	8	340	10	34	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	0.99	-19	40	8	410	10	16	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	RE BLR	RO	FilmTec	100	1	-21	47	8	480	10	50	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	7	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	BW-400	RO	FilmTec	100	1	-4.5	57	8	620	10	16	[19,37]
Bromoform	HB	253	2.4	2.4	1	0.69	0.65	0.48	0.56	RE-BLR	RO	Dow-Filmtec	100	1	-20.9	46.8	8	480	5.5	50	[19]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	54.6	[35,36,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	5.4	[35,36,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	100	[35,36,38]
Caffeine	HL	194	-0.07	-0.45	1.04	0.8	0.68	0.56	0.7	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	88.8	[35,36,38]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	8	500	2.5	70	[4,19]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	50	[19]
Caffeine	HL	194.19	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	80.8	[19]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	62.7	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	84.8	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	69.2	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	93.3	[38]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	50	[24]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	80.8	[24]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	69.34	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	65.77	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	63.49	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	65.75	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.7	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	90.07	[19,39]
Caffeine	HL	194	-0.07	-0.45	3.71	0.98	0.87	0.56	0.77	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	93.26	[19,39]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	0.99	-20	50	7.5	800	30	81	[19,31]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	0.97	-9.96	63.2	7.5	800	30	59	[19,31]
Caprolactam	HL	113.16	0.66	-0.23	3.73	0.79	0.73	0.57	0.65	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-5	47	7.5	800	30	79	[19,31]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	96.33	[19,12]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	88.16	[19,12]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	30.51	[19,12]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	99.84	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.99	2500	10	99.38	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.68	2500	10	85.35	[13,19]
Carbamazepine	HB	236.3	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	86.28	[13,19]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	84.41	[19,33]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	82	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	84	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	82	[19,33]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	64	[19,33]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	66.9	[24,35,36]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	8.9	[24,35,36]
Carbamazepine	HB	236	2.45	2.58	1.67	0.95	0.57	0.58	0.73	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	92.6	[24,35,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	689.47	75	93.4	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	95.8	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1378.95	75	98.1	[19,36]
Carbamazepine	HB	236	2.45	2.58	1.67	1.2	0.92	0.58	0.73	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	7.6	1034.21	75	93.6	[19,36]
Carbamazepine	HB	236.27	2.45	2.45	3.66	1.2	0.92	0.58	0.73	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	8	500	2.5	91	[4,19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	90.8	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	70	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	88.4	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	95	[19]
Carbamazepine	HB	236.27	2.45	2.58	3.66	1.2	0.92	0.58	0.73	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	1	-23.02	41.5	8	510	5.5	76	[19]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	78.8	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	91.3	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	80.4	[38]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	95.9	[38]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	88	[13,24]
Carbamazepine	HB	236.3	2.45	2.45	3.66	1.2	0.92	0.58	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	95	[13,24]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	79.34	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	80.64	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	83.23	[19,39]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	83.87	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	90.07	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	92.2	[19,39]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	70	[24]
Carbamazepine	HB	236	2.45	2.58	3.66	1.2	0.92	0.58	0.73	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	90.8	[24]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NE90	NF	Saehan	200	0.98	-24	52	8	240	10	70	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	70	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-15	54	8	340	10	79	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	0.99	-19	40	8	410	10	83	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	RE BLR	RO	FilmTec	100	1	-21	47	8	480	10	99	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	89	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	BW-400	RO	FilmTec	100	1	-4.5	57	8	620	10	96	[19,37]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-14.9	54.4	8	340	5.5	79	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NF-90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	70	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	NE-90	NF	Saehan	200	0.98	-23.6	51.7	8	240	5.5	70	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.99	-19.42	39.8	8	410	5.5	83	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	1	-23.02	41.5	8	510	5.5	89	[19]
Carbontetrabromide	HB	332	3.42	3.5	0.01	0.69	0.63	0.65	0.64	BW-400	RO	Dow-Filmtec	100	1	-4.49	56.8	8	620	5.5	96	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NE-90	NF	Saehan	200	0.98	-23.6	51.7	8	240	5.5	52	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NF-90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	35	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-14.9	54.4	8	340	5.5	84	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.99	-19.42	39.8	8	410	5.5	69	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	1	-23.02	41.5	8	510	5.5	69	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	BW-400	RO	Dow-Filmtec	100	1	-4.49	56.8	8	620	5.5	78	[19]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NE90	NF	FilmTec	200	0.98	-24	52	8	240	10	52	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	35	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	UTC-70	LPRO (low pressure reverse osmosis).)	Saehan	100	1	-15	54	8	340	10	84	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	0.99	-19	40	8	410	10	69	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	RE BLR	RO	FilmTec	100	1	-21	47	8	480	10	90	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	69	[19,37]
Carbontetrachloride	HB	154	2.83	2.83	0.3	0.64	0.64	0.57	0.6	BW-400	RO	FilmTec	100	1	-4.5	57	8	620	10	78	[19,37]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NE90	NF	Saehan	200	0.98	-24	52	8	240	10	1	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	0	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-15	54	8	340	10	9	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	0.99	-19	40	8	410	10	10	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	RE BLR	RO	FilmTec	100	1	-21	47	8	480	10	34	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	3	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	BW-400	RO	FilmTec	100	1	-4.5	57	8	620	10	4	[19,37]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NF-90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	1	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	NE-90	NF	Saehan	200	0.98	-23.6	51.7	8	240	5.5	1	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	UTC-70	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	1	-14.9	54.4	8	340	5.5	9	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.99	-19.42	39.8	8	410	5.5	10	[19]
Chloroform	HL	119	1.97	1.97	1.12	0.53	0.5	0.35	0.42	BW-400	RO	Dow-Filmtec	100	1	-4.49	56.8	8	620	5.5	4	[19]
Chlorotoluron	HB	212.68	2.41	0.41	2.74	1.29	0.83	0.45	0.61	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	81.1	[19]
Chlorotoluron	HB	212.68	2.41	2.41	2.74	1.29	0.83	0.45	0.61	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	81	[13,19,24]
Ciprofloxacin	HL	331.35	0.28	-1.26	10.91	1.15	0.67	0.25	0.41	NF90	NF	Dow/FilmTec	200	0.97	-24.9	62	6.5	4100	15	99.4	[43,44, ChemBio, ChemSpider]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	90.2	[13,24,12, ChemBio]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	87.34	[13,24,12, ChemBio]
Clenbuterol	HL	277.19	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	18.22	[13,24,12, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	99.39	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10	2500	10	98.94	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.7	2500	10	97.26	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	82.94	[13,24, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-10.82	43	7	2500	10	87.31	[13,24, ChemBio]
Clenbuterol	HL	277	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	80.51	[13,24,33, ChemBio]
Clenbuterol	HL	277	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	78.34	[13,24,33, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	71	[13,24,33, ChemBio]
Clenbuterol	HL	277.2	2	-0.29	1.18	1.4	0.89	0.74	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	87	[13,24, ChemBio]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[13,24,12,37]
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	98.37	[13,24,12,37]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Clofibric acid	HB	214.65	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	84.32	[13,24,12,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	94.96	[13,24,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.99	2500	10	100	[13,24,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-12.49	43	5.73	2500	10	70	[13,24,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-24.65	43	9.5	2500	10	98.65	[13,24,37]
Clofibric acid	HB	215	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	88.08	[13,24,33,37]
Clofibric acid	HB	215	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	86.36	[13,24,33,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	98	[13,24,33,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	97	[13,24,33,37]
Clofibric acid	HB	214.7	2.57	-1.08	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	95	[13,24,33,37]
Clofibric acid	HB	214	2.57	-0.2	0.79	0.95	0.66	0.41	0.52	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	86	[24,37]
Clofibric acid	HB	214	2.57	-0.2	0.79	0.95	0.66	0.41	0.52	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	87	[19,37]
Clofibric acid	HB	214.7	2.57	-0.2	0.79	1.2	0.66	0.68	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	98	[13,24]
Clofibric acid	HB	214.7	2.57	-0.2	0.79	1.2	0.66	0.68	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[13,24]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[13,19,24,12]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	93.47	[13,19,24,12]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	33.05	[13,19,24,12]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.37	2500	10	98.76	[13,19,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10.01	2500	10	99.38	[13,19,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.7	2500	10	92.99	[13,19,24]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.5	2500	10	91.9	[13,19,24]
Cyclophosphamide	HL	261	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	88.08	[13,19,24,33]
Cyclophosphamide	HL	261	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	84.3	[13,19,24,33]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	95	[13,19,24,34]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	94	[13,19,24,34]
Cyclophosphamide	HL	261.1	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	84	[13,19,24,34]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	96.5	[19]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	93.6	[19]
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	94	[13,19,24]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Cyclophosphamide	HL	261.09	0.63	0.63	4.5	1.12	0.98	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	97	[13,19,24]
Dichloroacetic acid	HL	129	0.92	-3.54	2.4	0.7	0.69	0.52	0.6	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	89	[24,32,37]
Dichloroacetic acid	HL	129	0.92	-3.54	2.4	0.7	0.69	0.52	0.6	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	77	[24,32,37]
Diclofenac	HB	296.15	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[13,24,12]
Diclofenac	HB	296.15	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	100	[13,24,12]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	99.14	[13,24]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.99	2500	10	99.66	[13,24]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-24.65	43	9.5	2500	10	98.4	[13,24]
Diclofenac	HB	296	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	89.23	[13,24,33]
Diclofenac	HB	296	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	86.7	[13,24,33]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	98	[13,24,34]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	98	[13,24,34]
Diclofenac	HB	296.2	4.51	1.59	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	94	[13,24,34]
Diclofenac	HB	296	4.51	1.62	1.48	1.13	0.91	0.45	0.64	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	90	[24,37]
Diclofenac	HB	296	4.51	1.62	1.48	1.13	0.91	0.45	0.64	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	91	[19,37]
Diclofenac	HB	296.2	4.51	1.62	1.48	1.16	0.91	0.85	0.9	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	99	[13,24]
Diclofenac	HB	296.2	4.51	1.62	1.48	1.16	0.91	0.85	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[13,24]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	98.4	[35,36,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	75.4	[35,36,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	98.7	[35,36,45, (KOWWIN, EPA)]
Diethylstilbesterol	HB	268	5.07	5.93	1.62	1.31	0.81	0.31	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	89.9	[35,36,45, (KOWWIN, EPA)]
Dikegulac	HB	274.27	1.35	-2.05	2.97	1.19	0.95	0.69	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	95	[13,24, ChemBio, (KOWWIN, EPA)]
Diuron	HB	233.1	2.68	1.97	1.12	1.31	0.76	0.42	0.56	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	72.8	[19]
Diuron	HB	233.1	2.68	2.68	1.12	1.31	0.76	0.42	0.56	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	73	[13,19,24]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	74.8	[35,36,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	23.7	[35,36,45, (KOWWIN, EPA)]

	Organic compounds properties									Membrane characteristics							Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	96.8	[35,36,45, (KOWWIN, EPA)]
Estriol	HB	288	2.45	2.94	3.22	1.16	0.58	0.39	0.47	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	93.7	[35,36,45, (KOWWIN, EPA)]
Estrone	HB	270	3.13	3.13	3.46	1.39	0.85	0.67	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	90	[13,24, ChemBio, (KOWWIN, EPA)]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	76.39	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	83.85	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	81.57	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	86.11	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	93.26	[19,39]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	91.49	[19,39]
Estrone	HB	270	3.13	3.46	3.46	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	76.4	[24]
Estrone	HB	270	3.13	3.46	3.46	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	90.3	[24]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	689.47	75	92	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	95.2	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1378.95	75	95.7	[19,36]
Estrone	HB	270	3.13	3.46	2.04	1.39	0.85	0.67	0.76	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	7.6	1034.21	75	91.4	[19,36]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	77.3	[19]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	90.3	[19]
Estrone	HB	270.37	3.13	3.46	3.45	1.39	0.85	0.67	0.76	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	90	[19]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	92.2	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	93	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	92	[38]
Estrone	HB	270	3.13	3.46	3.45	1.39	0.85	0.67	0.76	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	98	[38]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	79.2	[24,35,36]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	39	[24,35,36]
Estrone	HB	270	3.13	3.46	2.04	1.14	0.57	0.67	0.76	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	92.6	[24,35,36]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	8.7	[19]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	9	[13,19,24]
Ethanol	HL	46.07	-0.31	-0.31	1.55	0.64	0.52	0.51	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	38	[13,19,24]
Fenoprofen	HB	242.27	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	97.14	[13,24,12, ChemBio]
Fenoprofen	HB	242.27	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	69.91	[13,24,12, ChemBio]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.4	2500	10	71.37	[13,24, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10.01	2500	10	99.23	[13,24, ChemBio]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-24.65	43	9.48	2500	10	98.9	[13,24, ChemBio]
Fenoprofen	HB	242	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	91.29	[13,24,33, ChemBio]
Fenoprofen	HB	242	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	73.87	[13,24,33, ChemBio]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	97	[13,24,34, ChemBio]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	91	[13,24,34, ChemBio]
Fenoprofen	HB	242.3	3.9	1.11	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	87	[13,24,34, ChemBio]
Fenoprofen	HB	242.3	3.9	0.37	1.6	1.16	0.93	0.74	0.83	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	99	[13,24, ChemBio]
Fenoprofen	HB	242.3	3.9	0.37	1.6	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	100	[13,24, ChemBio]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	90.43	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	92.32	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	91.73	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	94.46	[13,24,39]
Fenoprofen	HB	242	3.9	0.38	1.88	1.16	0.93	0.74	0.83	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	95.38	[13,24,39]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	0.99	-20	50	7.5	800	30	2	[19,31]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-5	47	7.5	800	30	18	[19,31]
Formaldehyde	HL	30.03	0.35	-0.98	2.16	0.47	0.43	0.34	0.38	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	0.97	-9.96	63.2	7.5	800	30	16	[19,31]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	90.23	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	91.83	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	91.43	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	96.42	[13,24,39]
Gemfibrozil	HB	250	4.77	2.3	0.95	1.58	0.94	0.65	0.78	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	96.08	[13,24,39]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[13,24,12, ChemBio]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	98.77	[13,24,12, ChemBio]
Gemfibrozil	HB	250.34	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	40.68	[13,24,12, ChemBio]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.4	2500	10	97.26	[13,24, ChemBio]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-24.65	43	9.5	2500	10	98.57	[13,24, ChemBio]
Gemfibrozil	HB	250	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	91.4	[13,24,33, ChemBio]
Gemfibrozil	HB	250	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	83.04	[13,24,33, ChemBio]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	98	[13,24,34, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	99	[13,24,34, ChemBio]
Gemfibrozil	HB	250.3	4.77	2.22	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	98	[13,24,34, ChemBio]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	86.5	[13,24,35,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	27.1	[13,24,35,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.13	0.67	0.65	0.78	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	97.4	[13,24,35,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	689.47	75	95.2	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	67.5	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1378.95	75	98.1	[13,24,36]
Gemfibrozil	HB	250	4.77	2.3	3.57	1.58	0.94	0.65	0.78	TS80	NF	(TriSep, 4040-TS80-TSF, Goleta, CA)	200	0.963	-15	56.6	7.6	1034.21	75	96.5	[13,24,36]
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	98	[13,24, ChemBio, (KOWWIN, EPA)]
Gemfibrozil	HB	250.3	4.77	2.3	3.04	1.58	0.94	0.65	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[13,24, ChemBio, (KOWWIN, EPA)]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	98.1	[19]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	90	[19]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	98	[13,19,24]
Glucose	HL	180.16	-3.24	-3.24	2.23	0.94	0.79	0.71	0.75	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	90	[13,19,24]
Glycerol	HL	92.1	-1.76	-1.76	3.2	0.8	0.59	0.53	0.56	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	12	[13,24, ChemBio, (KOWWIN, EPA)]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[12,38]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	98.77	[12,38]
Ibuprofen	HB	206.29	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	53.39	[12,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.4	2500	10	86.58	[13,24]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-24.65	43	9.48	2500	10	98.99	[13,38]
Ibuprofen	HB	206	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	89	[33,38]
Ibuprofen	HB	206	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	83.95	[33,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	98	[34,38]
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	97	[34,38]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Ibuprofen	HB	206.3	3.97	1.44	4.95	1.39	0.73	0.55	0.64	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	84	[34,38]
Ibuprofen	HB	206	3.97	0.77	1.29	1.31	0.77	0.64	0.7	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	86	[24,37]
Ibuprofen	HB	206	3.97	0.77	1.29	1.31	0.77	0.64	0.7	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	91	[19,24,37]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	77.3	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	96.2	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	91.4	[38]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	97.6	[38]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.33	0.73	0.7	0.71	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	99	[17,24]
Ibuprofen	HB	206.3	3.97	0.77	4.95	1.33	0.73	0.7	0.71	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[17,24]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	89.03	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	92.72	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	89.93	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	95.85	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	97.46	[24,39]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	75.5	[24]
Ibuprofen	HB	206	3.97	0.77	4.95	1.39	0.73	0.55	0.64	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	96	[24]
Isopropanol	HL	60.11	0.05	-0.18	2.67	0.66	0.57	0.56	0.56	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	0.99	-20	50	7.5	800	30	62	[19,31]
Isopropanol	HL	60.11	0.05	-0.18	2.67	0.66	0.57	0.56	0.56	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-5	47	7.5	800	30	63	[19,31]
Isoproturon	HB	206.29	2.87	1.68	2.4	1.42	0.69	0.63	0.66	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	93.2	[19]
Isoproturon	HB	206.29	2.87	2.87	2.4	1.42	0.69	0.63	0.66	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	93	[13,19,24]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[13,24,12, ChemBio]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	97.96	[13,24,12, ChemBio]
Ketoprofen	HB	254.28	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	76.69	[13,24,12, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.4	2500	10	85.64	[13,24, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.99	2500	10	99.32	[13,24, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-24.65	43	9.48	2500	10	97.98	[13,24, ChemBio]
Ketoprofen	HB	254	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	88.77	[13,24,33, ChemBio]
Ketoprofen	HB	254	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	84.07	[13,24,33, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	96	[13,24,34, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	96	[13,24,34, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	95	[13,24,34, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	99	[13,24, ChemBio]
Ketoprofen	HB	254.3	3.12	0.41	4.41	1.16	0.93	0.74	0.83	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[13,24, ChemBio]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	91.43	[39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	92.13	[39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	91.73	[39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	95.5	[39]
Ketorofen	HB	254	3.12	0.41	3.42	1.16	0.93	0.74	0.83	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	95.15	[39]
Lindane	HB	290.83	3.72	2.4	1	0.91	0.86	0.7	0.78	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	90.8	[19]
Lindane	HB	290.83	3.72	3.72	1	0.91	0.86	0.7	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	91	[13,19,24]
Linuron	HB	249.1	3.2	3.2	9.35	1.21	0.89	0.53	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	53	[13,24, ChemBio, (KOWWIN, EPA)]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	38.3	[19]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	38	[13,19,24]
Methacetin	HL	165.19	1.03	1.03	2.2	1.28	0.65	0.42	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	5	[13,19,24]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	0.99	-20	50	7.5	800	30	2	[19,31]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-5	47	7.5	800	30	10	[19,31]
Methanol	HL	32.04	-0.77	-0.55	1.62	0.53	0.45	0.42	0.44	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	0.97	-9.96	63.2	7.5	800	30	4	[19,31]
Metobromuron	HB	259.1	2.38	3.4	0.11	1.34	0.75	0.5	0.61	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	78.4	[19]
Metobromuron	HB	259.1	2.38	2.38	0.11	1.34	0.75	0.5	0.61	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	78	[13,19,24]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	90.612	[13,24,12, ChemBio]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	89.79	[13,24,12, ChemBio]
Metoprolol	HL	267.37	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	11.02	[13,24,12, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.98	2500	10	92.4	[13,24, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.68	2500	10	97.56	[13,24, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	88.35	[13,24, ChemBio]
Metoprolol	HL	267	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	81.09	[13,24,33, ChemBio]
Metoprolol	HL	267	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	81.09	[13,24,33, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	93	[13,24,34, ChemBio]
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	88	[13,24,34, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Metoprolol	HL	267.4	1.88	-0.61	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	78	[13,24,34, ChemBio]
Metoprolol	HL	267.4	1.88	-0.77	2.16	1.86	0.86	0.62	0.73	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	90	[13,24, ChemBio]
Metoprolol	HL	267.4	1.88	-0.77	2.16	1.86	0.86	0.62	0.73	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	95	[13,24, ChemBio]
Metoxuron	HL	228.68	1.64	1.64	3.03	1.29	0.82	0.59	0.7	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	88.5	[19]
Metoxuron	HL	228.68	1.64	1.64	3.03	1.29	0.82	0.59	0.7	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	89	[13,19,24]
Metribuzin	HL	214.29	1.7	0.47	4.44	1.17	0.85	0.64	0.74	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	97	[13,24, ChemBio]
Metronidazole	HL	171.16	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	47.3	[19]
Metronidazole	HL	171.16	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	82.5	[19]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	53.7	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	83.5	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	29	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	91.5	[38]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	45.74	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	46.38	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	42.15	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	45.4	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	70.92	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	73.4	[19,39]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	47.3	[24]
Metronidazole	HL	171	-0.02	-0.27	6.3	0.93	0.9	0.48	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	82.5	[24]
Monolinuron	HB	214.65	2.3	2.83	0.3	1.22	0.73	0.65	0.69	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	78.8	[19]
Monolinuron	HB	214.65	2.3	2.3	0.3	1.22	0.73	0.65	0.69	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	79	[13,19,24]
Monomethylphtalate	HL	180.16	1.13	-2.27	9.78	0.99	0.84	0.47	0.63	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	94	[13,24, ChemBio, (KOWWIN, EPA)]
MTBE (Methyl tert-butyl ether)	HL	88.15	0.94	0.94	1.43	0.77	0.67	0.59	0.63	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	60	[13,24, ChemBio, (KOWWIN, EPA)]
NAC (standar) Carbaryl (1-NAPH-THYL-N-METHYL-CARBAMATE)"	HB	201.22	2.36	2.19	2.26	1.24	0.86	0.42	0.6	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	8	500	2.5	79	[4,19]
N-acetyl-L-tyrosine	HL	223.23	1.32	-2.18	5.31	1.33	0.84	0.6	0.71	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	94	[13,24, ChemBio, (KOWWIN, EPA)]
N-acetyl-L-tyrosine	HL	223.23	1.32	-2.18	5.31	1.33	0.84	0.6	0.71	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	70	[13,24, ChemBio, (KOWWIN, EPA)]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	88.77	[19]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	77.53	[19]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Naproxen	HB	230	3.18	0.34	2.74	1.26	0.69	0.54	0.61	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	89	[24,37]
Naproxen	HB	230	3.18	0.34	2.74	1.26	0.69	0.54	0.61	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	75	[19,37]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	76.8	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	96.2	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	82.4	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	97.1	[38]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.76	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	95	[13,24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.76	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[13,24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	91.53	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	94.12	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	92.03	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	95.38	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	94.81	[39]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	75.6	[24]
Naproxen	HB	230	3.18	0.34	2.55	1.37	0.78	0.75	0.76	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	96	[24]
NDMA (N-NITRO-SODIMETHYL-AMINE)	HL	74.08	-0.57	-0.57	3.64	0.7	0.61	0.44	0.52	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	7	[13,24, ChemBio, (KOWWIN, EPA)]
NDMA (N-NITRO-SODIMETHYL-AMINE)	HL	74.08	-0.57	-0.57	3.64	0.7	0.61	0.44	0.52	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	0	[13,24, ChemBio, (KOWWIN, EPA)]
NDPA (DIPHENYL-NITROSAMINE)	HB	198.23	3.13	1.36	3.25	1.16	0.68	0.53	0.6	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	45	[13,24, ChemBio, (KOWWIN, EPA)]
NDPA (DIPHENYL-NITROSAMINE)	HB	198.23	3.13	1.36	3.25	1.16	0.68	0.53	0.6	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	19	[13,24, ChemBio, (KOWWIN, EPA)]
Nonylphenol	HB	220.35	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	83.3	[19]
Nonylphenol	HB	220.35	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	97.8	[19]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	91.7	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	91.3	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	97.6	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	98.8	[38]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	83.3	[24]
Nonylphenol	HB	220	5.71	5.88	1.02	1.79	0.75	0.59	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	90.3	[24]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	100	[13,19,24,12]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	94.28	[13,19,24,12]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	22.88	[13,19,24,12]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.38	2500	10	97.98	[13,19,24]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10.01	2500	10	99.22	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.68	2500	10	95.01	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	96.26	[13,19,24]
Pentoxifylline	HL	278	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	80.29	[13,19,24,33]
Pentoxifylline	HL	278	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	82.92	[13,19,24,33]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	96	[13,19,24,34]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	92	[13,19,24,34]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	85	[13,19,24,34]
Pentoxifylline	HL	278.31	0.29	0.29	4.78	1.52	0.94	0.7	0.81	De-HL	NF	GE Osmonics	175	0.97	-11	43	7	500	5.5	98.6	[19]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	94	[13,19,24]
Pentoxifylline	HL	278.3	0.29	0.29	4.78	1.52	0.94	0.7	0.81	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	99	[13,19,24]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NF-90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	39	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NE-90	NF	Saehan	200	0.98	-23.6	51.7	8	240	5.5	57	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	XLE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.99	-19.42	39.8	8	410	5.5	71	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	RE-BLR	RO	Saehan	100	1	-20.9	46.8	8	480	5.5	87	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	LE-440	LPRO	Dow-Filmtec	100	1	-23.02	41.5	8	510	5.5	76	[19]
Perchloroethene	HB	165.83	3.4	3.4	0.11	0.78	0.77	0.45	0.59	BW-400	RO	Dow-Filmtec	100	1	-4.49	56.8	8	620	5.5	71	[19]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NE90	NF	Saehan	200	0.98	-24	52	8	240	10	57	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	39	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-15	54	8	340	10	57	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	0.99	-19	40	8	410	10	71	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	RE BLR	RO	FilmTec	100	1	-21	47	8	480	10	87	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	76	[19,37]
Perchloroethene	HB	165	3.4	3.4	0.11	0.78	0.77	0.45	0.59	BW-400	RO	FilmTec	100	1	-4.5	57	8	620	10	71	[19,37]
Phenacetine	HL	179	1.58	1.68	2.4	1.39	0.68	0.42	0.53	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	45	[19,37]
Phenacetine	HL	179	1.58	1.68	2.4	1.39	0.68	0.42	0.53	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	56	[19,37]
Phenacetine	HL	179	1.58	1.68	1.67	1.35	0.69	0.42	0.54	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	7	500	2.5	74	[4,19]
Phenacetine	HL	179.22	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	41.3	[19]
Phenacetine	HL	179.22	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	75	[19]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	50.4	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	80	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	45.7	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	80.4	[38]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	41.49	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	39.21	[19,39]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	37.9	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	40.17	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	72.34	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	70.92	[19,39]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	41.3	[24]
Phenacetine	HL	179	1.58	1.68	4.05	1.35	0.69	0.42	0.54	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	75	[24]
Phenazone	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	82	[19,34]
Phenazone	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	73	[19,34]
Phenazone	HL	188.2	0.38	0.38	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	48	[19,34]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	94.28	[19,12]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	84.9	[19,12]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	34.74	[19,12]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.38	2500	10	97.36	[13,19]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10.01	2500	10	95.18	[13,19]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.7	2500	10	45.45	[13,19]
Phenazone	HL	188.2	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.5	2500	10	72.73	[13,19]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	79.83	[19,33]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	72.61	[19,33]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	60.4	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	85.9	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	65.7	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	95	[38]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	72.95	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	76.51	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	74.56	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF 200	NF	Dow-Filmtec	300	0.981	-30	64	7	483	8	78.77	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	91.13	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	94.68	[19,39]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	52.5	[24]
Phenazone	HL	188	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	85	[24]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	5.5	85	[19]
Phenazone	HL	188.23	0.38	0.54	4.44	1.17	0.78	0.56	0.66	NF200	NF	Dow-Filmtec	300	0.96	-20	37.5	7.5	276	5.5	52.5	[19]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	92.65	[13,24,12, ChemBio]
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	75.1	[13,24,12, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Pindolol	HL	248.32	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	12.29	[13,24,12, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	94.3	[13,24, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.98	2500	10	91.26	[13,24, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	75.1	[13,24, ChemBio]
Pindolol	HL	248	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	81.09	[13,24,33, ChemBio]
Pindolol	HL	248	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	71.69	[13,24,33, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	79	[13,24,34, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	75	[13,24,34, ChemBio]
Pindolol	HL	248.3	1.75	-0.52	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	32	[13,24,34, ChemBio]
Pindolol	HL	248.3	1.75	-0.32	1.28	1.46	0.8	0.72	0.76	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	75	[13,24, ChemBio]
Pindolol	HL	248.3	1.75	-0.32	1.28	1.46	0.8	0.72	0.76	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	83	[13,24, ChemBio]
Primidone	HL	218.25	0.91	-0.62	2.82	1.1	0.79	0.74	0.76	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	8	500	2.5	87	[4,19]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	82	[24,37]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	83	[24,37]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	NF-90	NF	Dow-Filmtec	200	0.98	-27	59.8	7.5	280	3.8	82	[19]
Primidone	HL	218	0.91	-0.84	4.31	0.97	0.88	0.48	0.65	LE-440	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	100	1	-23.02	41.5	8	510	3.8	83	[19]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	81	[13,24,34, ChemBio]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	76	[13,24,34, ChemBio]
Propanolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	55	[13,24,34, ChemBio]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	86.53	[13,24,12, ChemBio]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	75.1	[13,24,12, ChemBio]
Propranolol	HB	259.35	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	8.9	[13,24,12, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	98.94	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.98	2500	10	90.28	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.7	2500	10	96.88	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.5	2500	10	74.42	[13,24, ChemBio]
Propranolol	HB	259	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	81.32	[13,24,33, ChemBio]
Propranolol	HB	259	3.48	0.9	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	74.1	[13,24,33, ChemBio]

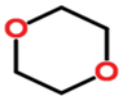
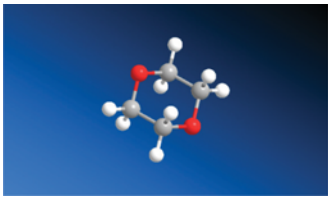
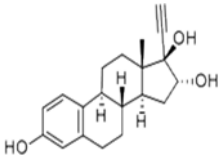
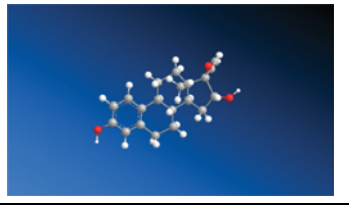
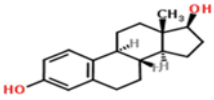
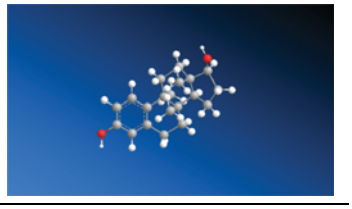
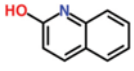
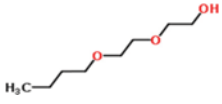
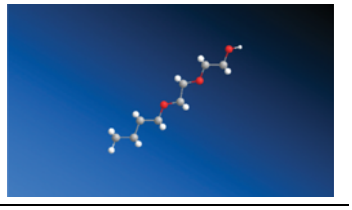
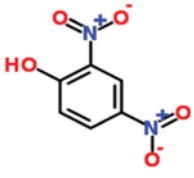
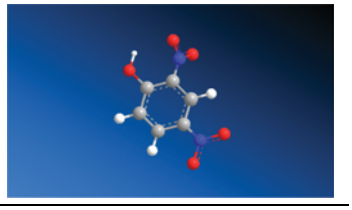
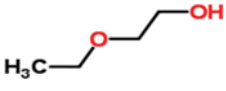
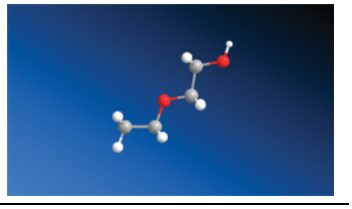
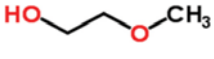
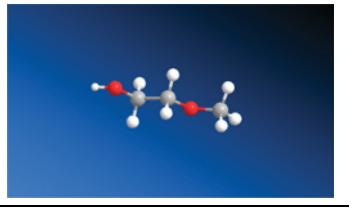
	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Propranolol	HB	259.4	3.48	0.55	2.43	1.41	0.92	0.88	0.9	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	75	[13,24, ChemBio]
Propranolol	HB	259.4	3.48	0.55	2.43	1.41	0.92	0.88	0.9	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	87	[13,24, ChemBio]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	92.65	[13,24,12, ChemBio]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	93.06	[13,24,12, ChemBio]
Salbutamol	HL	239.31	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	19.49	[13,24,12, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	98.56	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	9.96	2500	10	99.24	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.68	2500	10	98.93	[13,24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	96.88	[13 24, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-10.82	43	7	2500	10	93.44	[13,24, ChemBio]
Salbutamol	HL	239	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	76.96	[13,24,33, ChemBio]
Salbutamol	HL	239	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	79.71	[13,24,33, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	93	[13,24,34, ChemBio]
Salbutamol	HL	239.3	0.64	-1.63	1.38	1.36	0.86	0.74	0.8	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	86	[13,24,34, ChemBio]
Salbutamol	HL	239.3	0.64	-1.38	1.38	1.36	0.86	0.74	0.8	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	94	[17,23, ChemBio]
simazin	HB	201.66	2.18	3.5	0.01	1.37	0.85	0.48	0.64	TS-80	NF	Trisep	200	0.98	-14	48	7	500	5.5	81.8	[19]
Simazin	HB	201.66	2.18	2.18	0.01	1.37	0.85	0.48	0.64	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	82	[17,18,23]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	93.06	[13,24,12, ChemBio]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	89.79	[13,24,12, ChemBio]
Sotalol	HL	272.38	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	11.86	[13,24,12, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	99.01	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-27.84	48	10	2500	10	99.24	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.7	2500	10	96.19	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.5	2500	10	98.7	[13,24, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-10.82	43	7	2500	10	90	[13,24, ChemBio]
Sotalol	HL	272	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	81.2	[13,24,33, ChemBio]
Sotalol	HL	272	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	75.47	[13,24,33, ChemBio]
Sotalol	HL	272.4	0.24	-2.2	6.79	1.47	0.96	0.63	0.78	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	88	[13,24,34, ChemBio]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Sotalol	HL	272.4	0.24	-1.7	6.79	1.47	0.96	0.63	0.78	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	90	[13,24, ChemBio]
Sucrose	HL	342.3	-3.7	-3.7	9.61	1.27	0.96	0.86	0.91	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	99	[13,24, ChemBio, (KOWWIN, EPA)]
Sucrose	HL	342.3	-3.7	-3.7	9.61	1.27	0.96	0.86	0.91	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	98	[13,24, ChemBio, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	78.3	[35,36,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	18.1	[35,36,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	98.9	[35,36,45, (KOWWIN, EPA)]
Sulfachloropyridazine	HL	285	0.31	-0.66	1.73	1.36	0.54	0.46	0.5	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	97.2	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	79.7	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	22.4	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	99.7	[35,36,45, (KOWWIN, EPA)]
Sulfamethizole	HL	270	0.54	-1.17	0.93	0.93	0.86	0.48	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	98.7	[35,36,45, (KOWWIN, EPA)]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8	1723.69	75	76.4	[19,35,36,38]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7	1034.21	75	21.5	[19,35,36,38]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	8.1	1034.21	75	98.8	[19,35,36,38]
Sulfamethoxazole	HL	253	0.89	-0.45	2.12	1.29	0.56	0.58	0.64	TS80	Tight NF	(TriSep, 4040-X201-TSF, Goleta, CA)	200	0.963	-15	56.6	7.9	1034.21	75	96.7	[19,35,36,38]
Sulfamethoxazole	HL	253.28	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF270	NF	Dow/FilmTec	200	0.97	-21.6	28	6.5	4100	15	62.8	[43,38,39]
Sulfamethoxazole	HL	253.28	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow/FilmTec	200	0.97	-24.9	62	6.5	4100	15	98.7	[43,38,39]
Sulfamethoxazole	HL	253	0.89	-0.45	6.32	1.33	0.71	0.58	0.64	XLE	LPRO (low pressure reverse osmosis).)	Dow-Filmtec	150	0.98	-19.42	39.8	7	500	2.5	70	[4,19]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	0.96	-10.78	37.5	7	379	3	61.6	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	200	0.98	-48	58	7	379	3	94.5	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	0.96	-26.3	39.3	7	379	8	52.4	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	200	0.98	-38.2	54.2	7	379	8	96.5	[38]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	0.967	-28	33.1	7	483	8	84.25	[39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	0.969	-14	70.7	7	483	8	84.35	[39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec	300	0.964	-24	62.3	7	483	8	84.05	[39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF 90	NF	Dow-Filmtec	200	0.989	-32	42.5	7	345	8	96.19	[39]

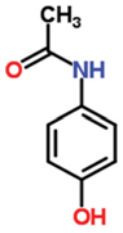
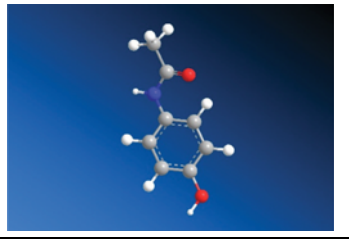
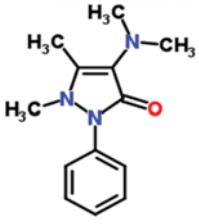
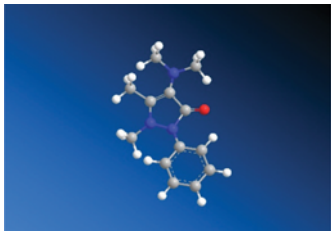
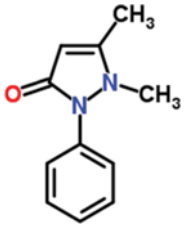
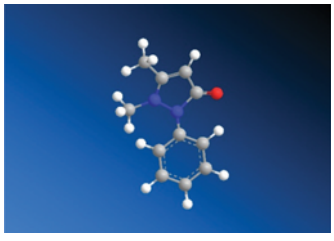
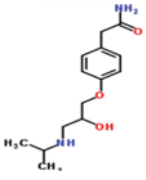
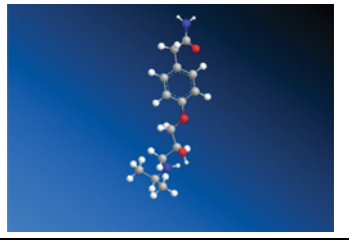
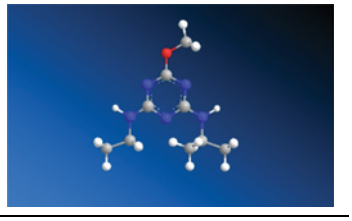
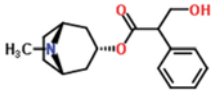
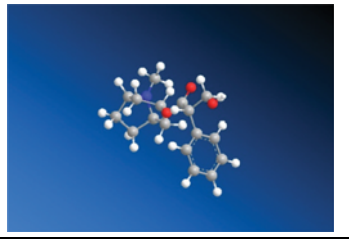
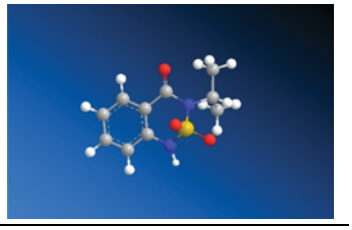
	Organic compounds properties									Membrane characteristics						Operating conditions				
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec	200	0.994	-22	53.1	7	345	8	95.27	[39]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF200	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	300	0.96	-10.78	58	7	483	8	58.9	[24]
Sulfamethoxazole	HL	253	0.89	-0.45	7.34	1.33	0.71	0.58	0.64	NF90	NF	Dow-Filmtec, Dow Chemical Co., Midland, MI	200	0.98	-48.04	39.3	7	276	3	94.4	[24]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	7.5	2500	10	99.18	[13,24,12, ChemBio]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-30	41	7.5	2500	10	88.98	[13,24,12, ChemBio]
Terbutaline	HL	225.29	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisept TS-80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-12.5	35	6.7	2000	80	16.52	[13,24,12, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80 TSF	NF	(Trisep Corp., Goleta, CA, USA)	200	0.99	-5.65	48	3.39	2500	10	98.25	[13,24, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	1.03	43	2.7	2500	10	98.63	[13,24, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14.47	43	9.48	2500	10	89.95	[13,24, ChemBio]
Terbutaline	HL	225	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Trisep TS80	NF	TSF (Trisep Corp., Goleta, CA, USA)	200	0.99	-14	48	7	1500	0.5	74.44	[13,24,33, ChemBio]
Terbutaline	HL	225	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-11	43	7	1500	0.5	72.03	[13,24,33, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	75	87	[13,24,34, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	82.5	86	[13,24,34, ChemBio]
Terbutaline	HL	225.3	0.9	-0.97	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.98	-14	41	7.9	2500	90	78	[13,24,34, ChemBio]
Terbutaline	HL	225.3	0.9	-1.64	1.8	1.34	0.85	0.7	0.77	Trisep TS-80	NF	(Trisep Corp., Goleta, CA, USA)	200	0.98	-14.32	48	7	2500	10	89	[13,24, ChemBio]
Terbutaline	HL	225.3	0.9	-1.64	1.8	1.34	0.85	0.7	0.77	Desal HL	NF	(GE Osmonics, Fairfield, CT, USA)	225	0.97	-10.82	43	7	2500	10	93	[13,24, ChemBio]
Trichloroacetic acid	HL	163	1.33	-2.42	1.5	0.89	0.67	0.41	0.52	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	87	[24,37]
Trichloroacetic acid	HL	163	1.33	-2.42	1.5	0.89	0.67	0.41	0.52	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	95	[19,37]
Trichloroethene	HB	131	2.29	2.29	0.95	0.78	0.66	0.36	0.49	RE-BLR	RO	Saehan	100	1	-20.9	46.8	8	480	5.5	33	[19]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	NE90	NF	Saehan	200	0.98	-24	52	8	240	10	0	[19,37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	NF-90	NF	FilmTec	200	0.99	-31	60	8	280	10	3	[24,37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	UTC-70	LPRO (low pressure reverse osmosis).)	Toray	100	1	-15	54	8	340	10	6	[19,37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	XLE-440	LPRO (low pressure reverse osmosis).)	FilmTec	150	0.99	-19	40	8	410	10	3	[19,37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	RE BLR	RO	FilmTec	100	1	-21	47	8	480	10	33	[19,37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	LE-440	RO	FilmTec	100	1	-23	42	8	550	10	2	[19,37]
Trichloroethene	HB	131	2.42	2.29	0.95	0.78	0.66	0.36	0.49	BW-400	RO	FilmTec	100	1	-4.5	57	8	620	10	0	[19,37]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	150	0.99	-1.68	50	3.5	800	30	30.88	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	150	0.99	-3.51	50	5.5	800	30	33.09	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	RO	Desal-Osmonics	150	0.99	-10.3	50	9.45	800	30	30.15	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-1.98	47	3.5	800	30	24.26	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-4.73	47	5.5	800	30	19.12	[19,31]

	Organic compounds properties									Membrane characteristics						Operating conditions					
Name	Classe	MW (g/mol)	log Kow	log D	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	Membrane	Type	Manufacturer	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle [a (°)]	pH	Pressure (KPa)	Recovery (%)	Measured rejection (%)	Reference
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-11.3	47	9.45	800	30	26.47	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	250	0.97	-4.27	63.2	3.5	800	30	17.52	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	250	0.97	-9.54	63.2	5.5	800	30	18.98	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	NF	Hydranautics	250	0.97	-12.75	63.2	9.45	800	30	15.33	[19,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	AK	LPRO (low pressure reverse osmosis).)	Desal-Osmonics	150	0.99	-20	50	7.5	800	30	19	[19,29,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESPA	LPRO (low pressure reverse osmosis).)	Hydranautics	200	0.99	-5	47	7.5	800	30	18	[19,29,31]
Urea	HL	60.06	-2.11	-2.11	4.56	0.67	0.56	0.34	0.43	ESNA	LPRO (low pressure reverse osmosis).)	Hydranautics	250	0.97	-9.96	63.2	7.5	800	30	20	[19,29,31]

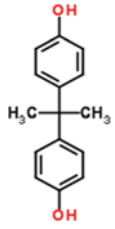
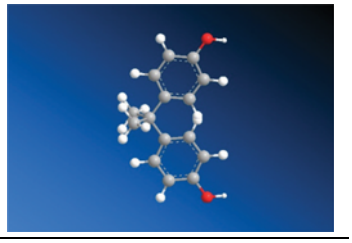
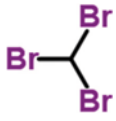
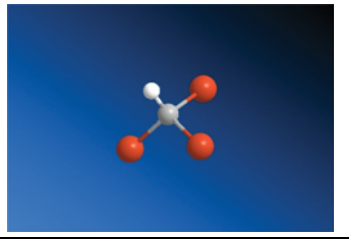
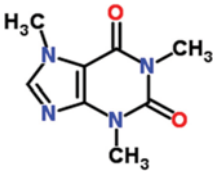
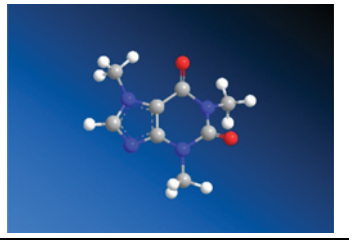
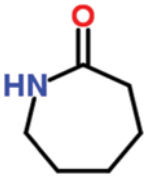
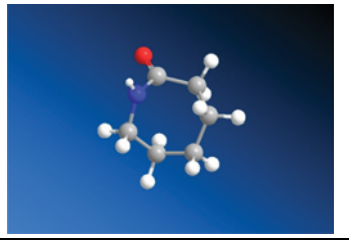
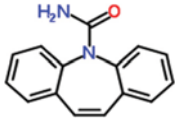
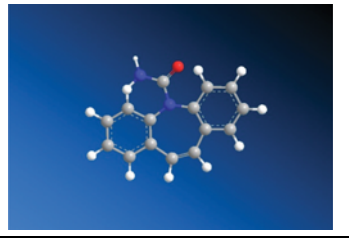
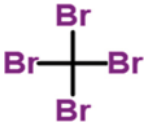
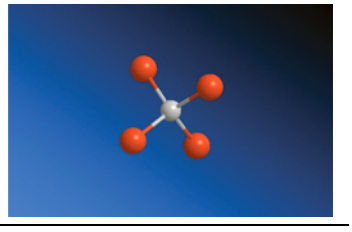
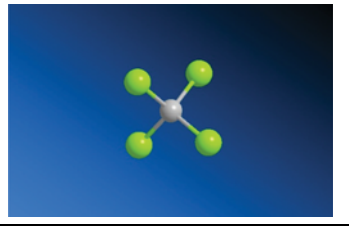
ANNEXE B. List of the 82 organic compounds used for developing ANN models

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
1	1,4-Dioxane	C4H8O2	133.41	71-55-6		
2	17a-Ethynylestradiol	C20H24O3	312.40	4717-40-2		
3	17β-Estradiol	C18H24O2	272.39	50-28-2		
4	2-(1H)-Quinoline	C9H7NO	145.16	59-31-4		
5	2-(2-Butoxyethoxy)ethanol	C8H18O3	162.23	112-34-5		
6	2,4-Dinitrophenol	C6H4N2O5	184.11	1326-82-5		
7	2-Ethoxyethanol	C4H10O2	90.12	110-80-5		
8	2-Methoxyethanol	C3H8O2	76.11	109-86-4		

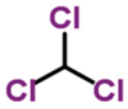
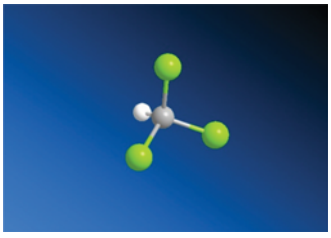
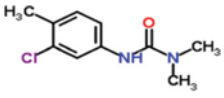
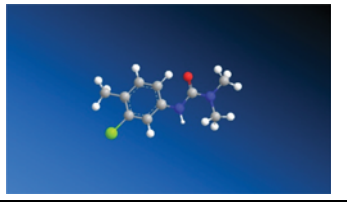
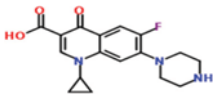
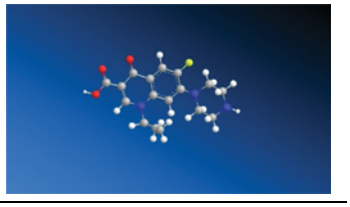
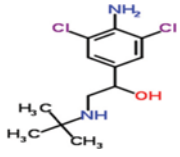
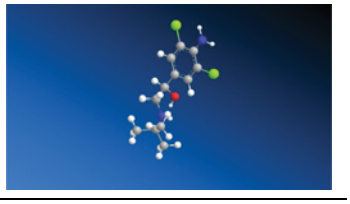
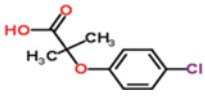
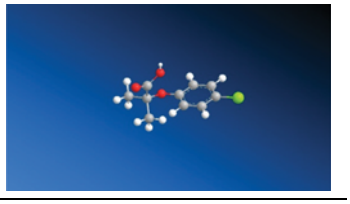
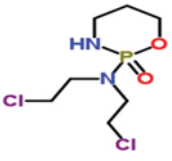
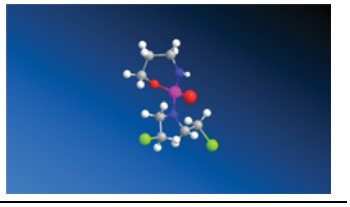
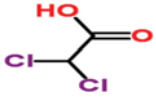
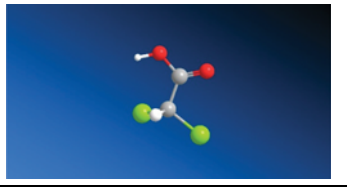
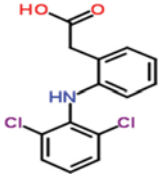
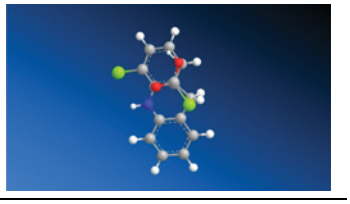
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
9	Acetaminophen	C8H9NO2	151.17	103-90-2		
10	Aminopyrine	C13H17N3O	231.30	58-15-1		
11	Antipyrine	C11H12N2O	188.23	60-80-0		
12	Atenolol	C14H22N2O3	266.34	29122-68-7		
13	Atrazine	C8H14ClN5	215.69	1912-24-9		
14	Atropine	C17H23NO3	289.38	51-55-8		
15	Bentazon	C10H12N2O3S	240.28	25057-89-0		

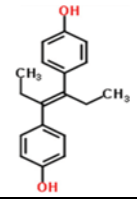
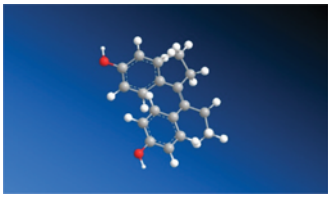
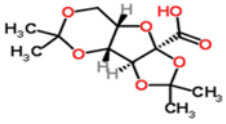
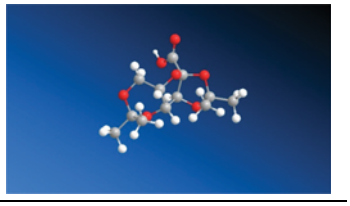
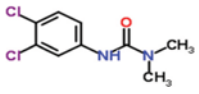
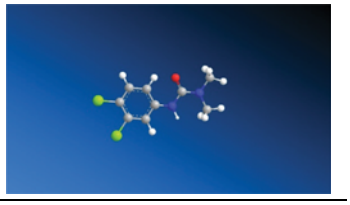
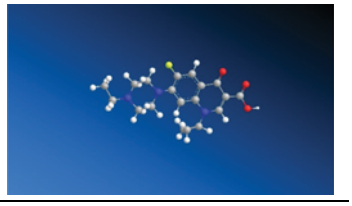
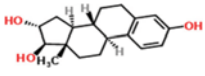
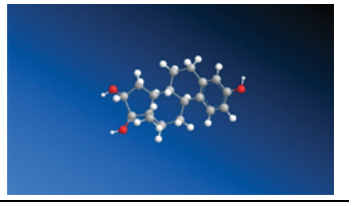
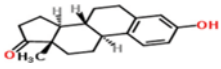
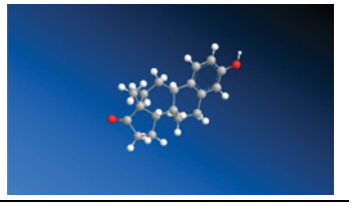
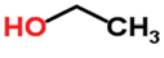
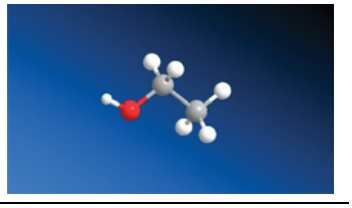
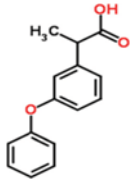
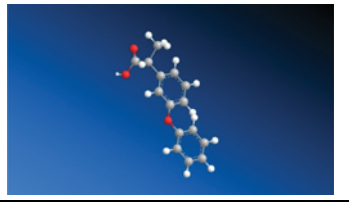
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
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17	Bromoform	CHBr3	252.73	75-25-2		
18	Caffeine	C8H10N4O2	194.14	58-08-2		
19	Caprolactam	C6H11NO	113.16	105-60-2		
20	Carbamazepine	C15H12N2O	236.28	298-46-4		
21	Carbontetrabromide	CBr4	131.63	558-13-4		
22	Carbontetrachloride	CCl4	153.82	56-23-5		

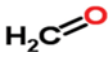
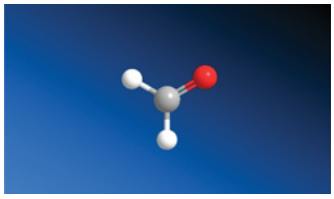
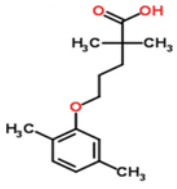
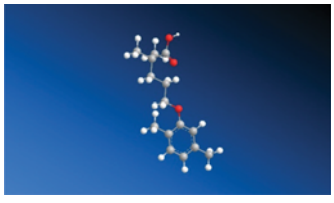
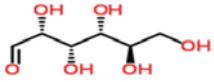
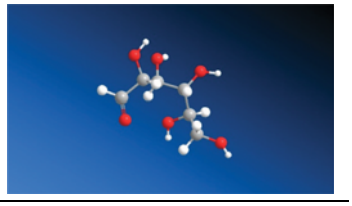
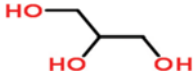
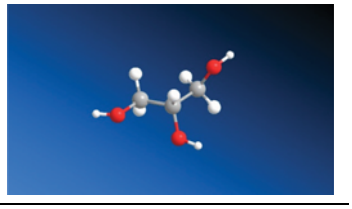
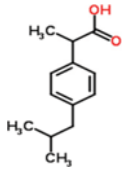
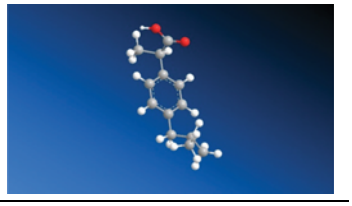
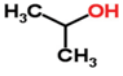
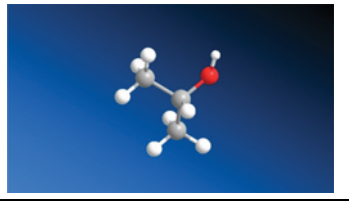
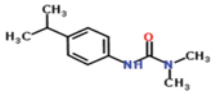
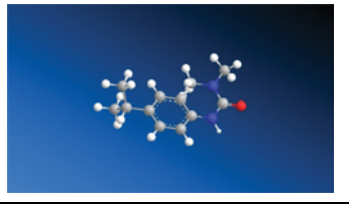
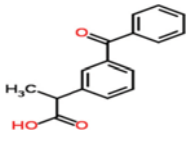
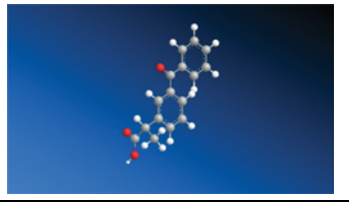
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
23	Chloroform	CHCl3	119.38	67-66-3		
24	Chlorotoluron	C10H13ClN2O	212.68	15545-48-9		
25	Ciprofloxacin	C17H18FN3O3	331.35	85721-33-1		
26	Clenbuterol	C12H18Cl2N2O	277.20	37148-27-9		
27	Clofibric acid	C10H11ClO3	214.65	882-09-7		
28	Cyclophosphamide	C7H15Cl2N2O2P	261.09	50-18-0		
29	Dichloroacetic acid	C2H2Cl2O2	128.94	79-43-6		
30	Diclofenac	C14H9Cl2NO	296.16	15307-86-5		

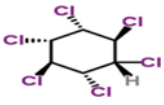
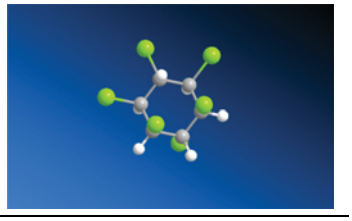
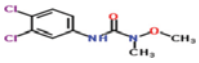
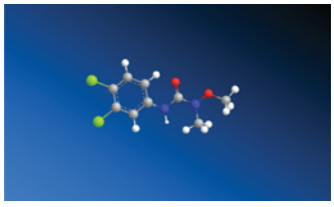
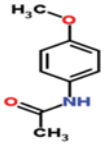
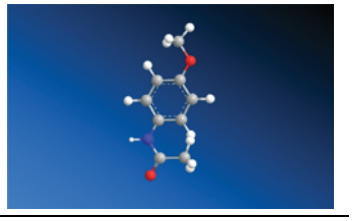
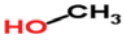
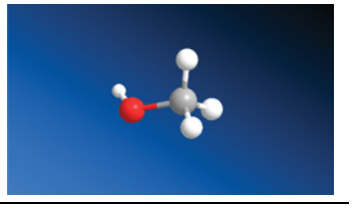
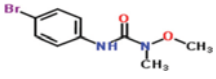
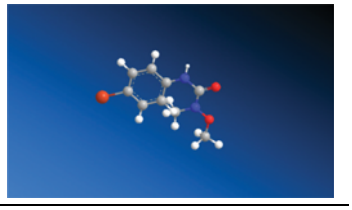
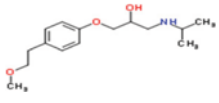
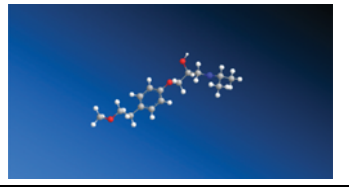
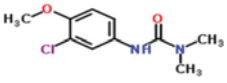
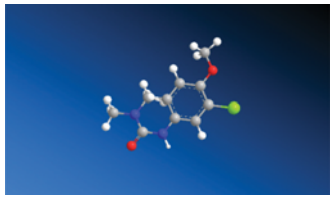
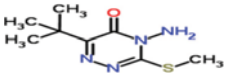
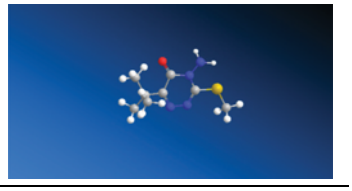
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
31	Diethylstilbesterol	C18H20O2	268.35	56-53-1		
32	Dikegulac	C12H18O7	274.27	18467-77-1		
33	Diuron	C9H10Cl2N2O	233.10	330-54-1		
34	Enrofloxacin	C19H22FN3O3	359.40	93106-60-6		
35	Estriol	C18H24O3	288.39	50-27-1		
36	Estrone	C18H22O2	270.37	53-16-7		
37	Ethanol	C2H6O	46.07	64-17-5		
38	Fenoprofen	C15H14O3	242.28	31879-05-7		

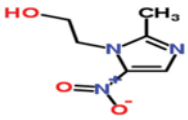
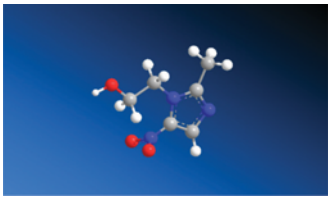
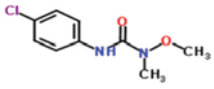
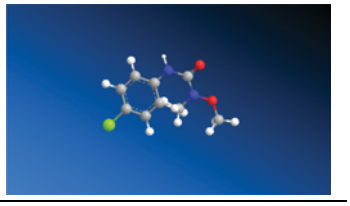
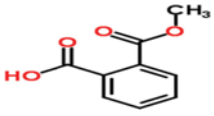
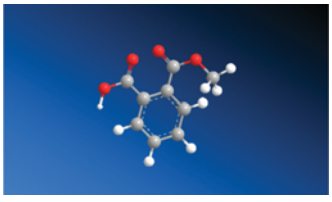
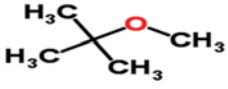
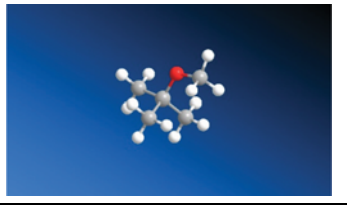
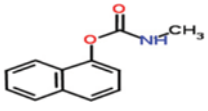
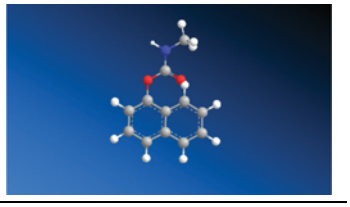
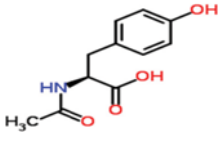
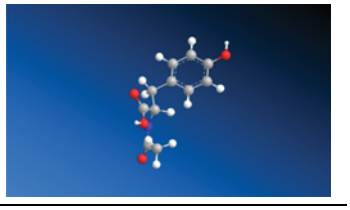
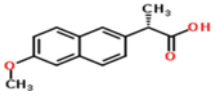
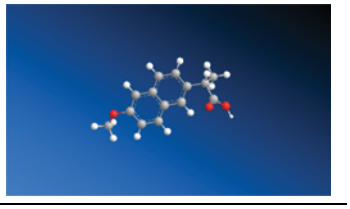
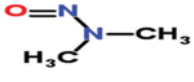
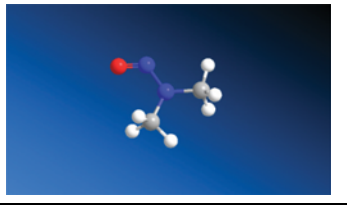
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
39	Formaldehyde	CH2O	30.03	50-00-0		
40	Gemfibrozil	C15H22O3	250.34	25812-30-0		
41	Glucose	C6H12O6	180.16	50-99-7		
42	Glycerol	C3H8O3	92.10	56-81-5		
43	Ibuprofen	C13H18O2	206.29	15687-27-1		
44	Isopropanol	C3H8O	60.10	67-63-0		
45	Isoproturon	C12H18N2O	206.29	34123-59-6		
46	Ketoprofen	C16H14O3	254.29	22071-15-4		

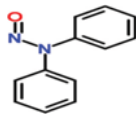
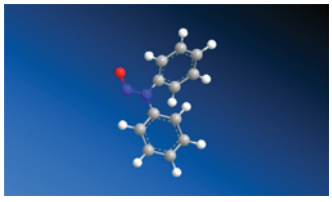
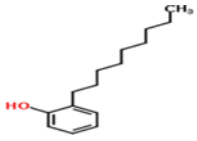
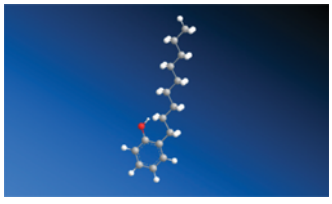
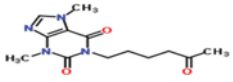
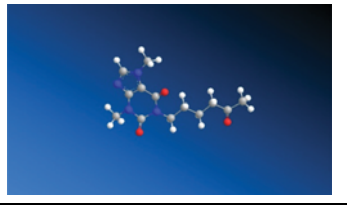
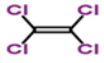
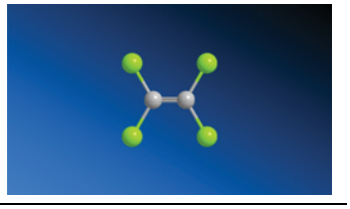
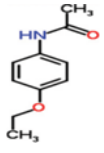
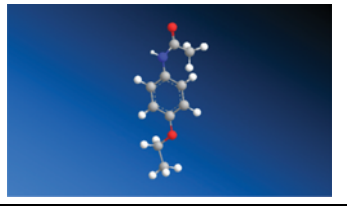
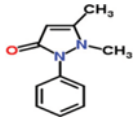
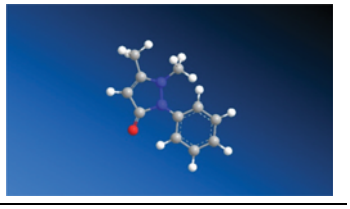
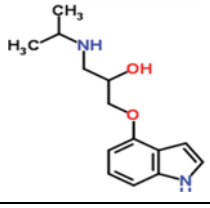
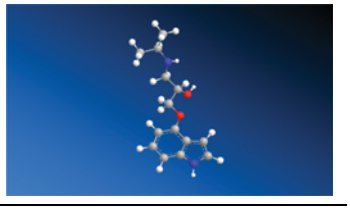
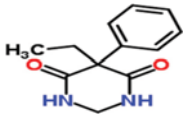
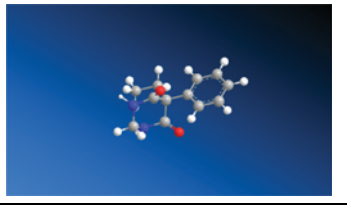
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
47	Lindane	C6H6Cl6	290.83	58-89-9		
48	Linuron	C9H10Cl2N2O2	249.10	330-55-2		
49	Methacetin	C9H11NO2	165.19	51-66-1		
50	Methanol	CH4O	32.04	67-56-1		
51	Metobromuron	C9H11BrN2O2	259.10	3060-89-7		
52	Metoprolol	C15H25NO3	267.37	37350-58-6		
53	Metoxuron	C10H13ClN2O2	228.68	19937-59-8		
54	Metribuzin	C8H14N4OS	214.29	21087-64-9		

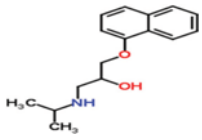
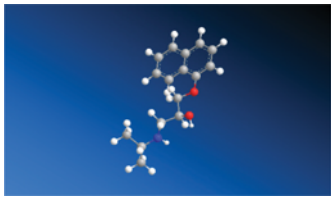
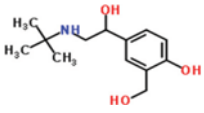
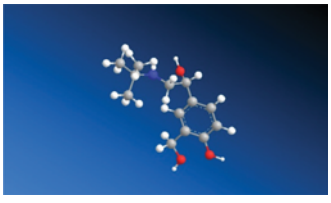
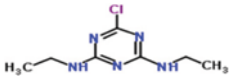
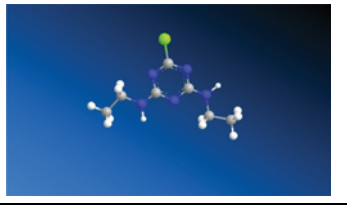
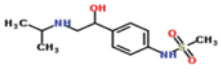
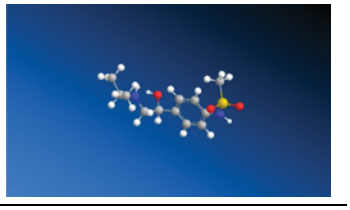
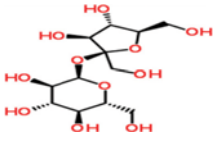
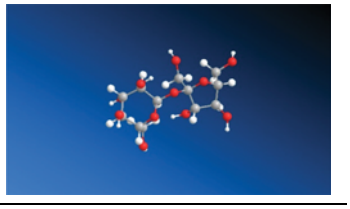
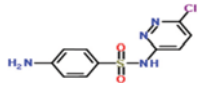
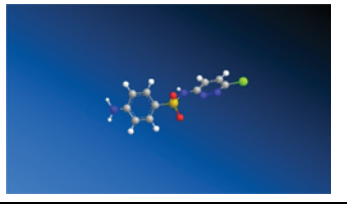
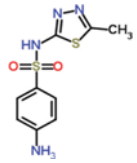
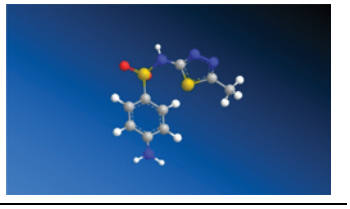
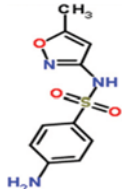
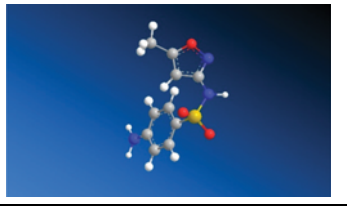
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
55	Metronidazole	C6H9N3O3	171.16	443-48-1		
56	Monolinuron	C9H11ClN2O2	214.65	1746-81-2		
57	Monomethylphtalate	C9H8O4	180.16	4376-18-5		
58	MTBE (Methyl tert-butyl ether)	C5H12O	88.15	1634-04-4		
59	NAC (standar) carbaryl (1-NAPHTHYL-N-METHYLCARBAMATE)	C12H11NO2	201.23	63-25-2		
60	N-acetyl-L-tyrosine	C11H13NO4	223.23	537-55-3		
61	Naproxen	C14H14O3	230.27	22204-53-1		
62	NDMA (N-NITROSODIMETHYL-AMINE)	C2H6N2O	74.08	62-75-9		

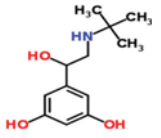
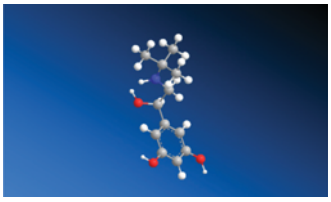
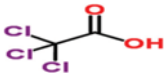
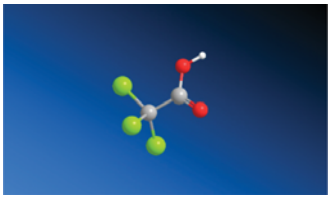
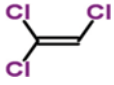
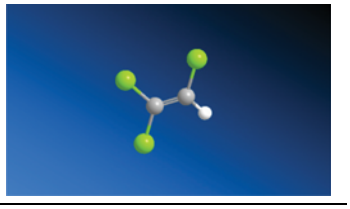
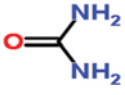
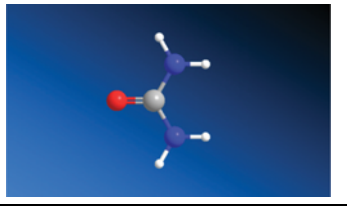
ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
63	NDPA (DIPHENYLNITRO-SAMINE)	C12H10N2O	198.23	86-30-6		
64	Nonylphenol	C15H24O	220.36	25154-52-3		
65	Pentoxifylline	C13H18N4O3	278.31	006493-05-6		
66	Perchloroethene	C2Cl4	165.83	127-18-4		
67	Phenacetin	C10H13NO2	179.22	62-44-2		
68	Phenazon	C11H12N2O	188.23	60-80-0		
69	Pindolol	C14H20N2O2	248.33	13523-86-9		
70	Primidone	C12H14N2O2	218.26	125-33-7		

ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
71	Propanolol	C16H21NO2	259.34	525-66-6		
72	Salbutamol	C13H21NO3	239.32	18559-94-9		
73	Simazin	C7H12ClN5	201.66	122-34-9		
74	Sotalol	C12H20N2O3S	272.37	3930-20-9		
75	Sucrose	C12H22O11	342.30	57-50-1		
76	Sulfachloropyridazine	C10H9ClN4O2S	284.73	80-32-0		
77	Sulfamethizole	C9H10N4O2S2	270.33	144-82-1		
78	Sulfamethoxazole	C10H11N3O3S	253.28	723-46-6		

ANNEXE B. Continued

#	Name	Molecular formula	MW (g/mole)	CAS number #	Chemical structure 2D	Chemical structure 3D
79	Terbutaline	C12H19NO3	225.29	23031-25-6		
80	Trichloroacetic acid	C2HCl3O2	163.39	76-03-9		
81	Trichloroethene	C2HCl3	131.39	79-01-6		
82	Urea	CH4N2O	060.06	57-13-6		

ANNEXE C.

Correlation matrix for the first database DB1

Name	MW (g/mol)	Log Kow	LogD	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	MWCO (dalton)	Zeta potential (mv)	Contact angle (°)	pH	Pressure (KPa)	Recovery (%)	Rejection (%)
MW(g/mol)	1.0000	0.3644	0.1980	0.1582	0.4924	0.2510	0.3147	0.3551	0.1433	−0.1273	−0.0398	−0.0086	0.1576	0.1677	0.4903
Log Kow	0.3644	1.0000	0.7333	−0.3099	0.2345	0.1340	0.2440	0.2637	0.0660	−0.1096	0.0646	0.1012	−0.1292	0.0828	0.2089
LogD	0.1980	0.7333	1.0000	−0.3085	0.0171	0.0235	−0.0334	0.0326	0.0183	−0.2058	0.0766	0.1220	−0.3181	0.1030	−0.0126
Dipole	0.1582	−0.3099	−0.3085	1.0000	0.1816	0.1094	−0.2101	−0.1252	0.0543	0.1608	−0.0322	−0.2454	0.0719	−0.1810	0.1606
Length	0.4924	0.2345	0.0171	0.1816	1.0000	0.4165	0.3551	0.4138	0.0827	0.1197	−0.1485	−0.1445	0.3241	−0.0285	0.4343
Width	0.2510	0.1340	0.0235	0.1094	0.4165	1.0000	0.4793	0.6929	−0.1737	0.3042	−0.1690	−0.1360	0.2816	−0.1874	0.3663
Depth	0.3147	0.2440	−0.0334	−0.2101	0.3551	0.4793	1.0000	0.9110	−0.0483	0.1338	−0.2201	−0.0578	0.3835	−0.0657	0.3462
Eqwidth	0.3551	0.2637	0.0326	−0.1252	0.4138	0.6929	0.9110	1.0000	−0.0678	0.1347	−0.2405	−0.0958	0.3640	−0.0542	0.3921
MWCO	0.1433	0.0660	0.0183	0.0543	0.0827	−0.1737	−0.0483	−0.0678	1.0000	−0.4170	0.0533	0.0731	−0.2158	0.2612	−0.2188
Zeta potential	−0.1273	−0.1096	−0.2058	0.1608	0.1197	0.3042	0.1338	0.1347	−0.4170	1.0000	0.0792	−0.2735	0.2666	−0.4349	0.0667
Contact angle	−0.0398	0.0646	0.0766	−0.0322	−0.1485	−0.1690	−0.2201	−0.2405	0.0533	0.0792	1.0000	0.1170	−0.2564	0.0364	0.0875
pH	−0.0086	0.1012	0.1220	−0.2454	−0.1445	−0.1360	−0.0578	−0.0958	0.0731	−0.2735	0.1170	1.0000	−0.0653	0.2565	−0.0281
Pressure	0.1576	−0.1292	−0.3181	0.0719	0.3241	0.2816	0.3835	0.3640	−0.2158	0.2666	−0.2564	−0.0653	1.0000	0.0886	0.2404
Recovery	0.1677	0.0828	0.1030	−0.1810	−0.0285	−0.1874	−0.0657	−0.0542	0.2612	−0.4349	0.0364	0.2565	0.0886	1.0000	−0.1186
Rejection	0.4903	0.2089	−0.0126	0.1606	0.4343	0.3663	0.3462	0.3921	−0.2188	0.0667	0.0875	−0.0281	0.2404	−0.1186	1.0000

Correlation matrix for the second database DB2

Name	MW (g/mol)	Log Kow	LogD	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle (°)	pH	Pressure (KPa)	Recovery (%)	Rejection (%)
MW(g/mol)	1.0000	0.4286	0.2112	0.0231	0.5670	0.5186	0.6016	0.6790	−0.0885	−0.0077	−0.1023	0.0058	0.2566	0.1345	0.5926
Log Kow	0.4286	1.0000	0.7244	−0.3589	0.2507	0.1734	0.2982	0.3136	0.0051	−0.1369	0.0311	0.0944	−0.0929	0.0240	0.3035
LogD	0.2112	0.7244	1.0000	−0.3237	−0.0188	−0.0179	−0.0560	−0.0021	−0.0883	−0.1908	0.1770	0.1086	−0.3585	−0.0174	0.0550
Dipole	0.0231	−0.3589	−0.3237	1.0000	0.1890	0.2833	−0.0919	0.0394	−0.1789	−0.0836	−0.0542	−0.1574	0.0968	−0.0675	0.1042
Length	0.5670	0.2507	−0.0188	0.1890	1.0000	0.4705	0.4365	0.5193	−0.2034	−0.0152	−0.2005	−0.1263	0.3331	0.0744	0.4964
Width	0.5186	0.1734	−0.0179	0.2833	0.4705	1.0000	0.5584	0.7564	−0.0199	−0.0207	−0.2488	−0.0986	0.2898	−0.0463	0.5090
Depth	0.6016	0.2982	−0.0560	−0.0919	0.4365	0.5584	1.0000	0.9060	0.0013	0.0916	−0.2482	−0.0683	0.3951	0.0423	0.5255
Eqwidth	0.6790	0.3136	−0.0021	0.0394	0.5193	0.7564	0.9060	1.0000	−0.0510	0.0462	−0.2401	−0.0871	0.3822	0.0503	0.5952
SR ($MgSO_4$)	−0.0885	0.0051	−0.0883	−0.1789	−0.2034	−0.0199	0.0013	−0.0510	1.0000	−0.0616	−0.1742	0.0328	0.0754	−0.2125	−0.0096
Zeta potential	−0.0077	−0.1369	−0.1908	−0.0836	−0.0152	−0.0207	0.0916	0.0462	−0.0616	1.0000	−0.0872	−0.2662	0.4186	0.2542	−0.1280
Contact angle	−0.1023	0.0311	0.1770	−0.0542	−0.2005	−0.2488	−0.2482	−0.2401	−0.1742	−0.0872	1.0000	0.0201	−0.3606	−0.0251	−0.0846
pH	0.0058	0.0944	0.1086	−0.1574	−0.1263	−0.0986	−0.0683	−0.0871	0.0328	−0.2662	0.0201	1.0000	−0.0507	0.1734	−0.0064
Pressure	0.2566	−0.0929	−0.3585	0.0968	0.3331	0.2898	0.3951	0.3822	0.0754	0.4186	−0.3606	−0.0507	1.0000	0.2993	0.2314
Recovery	0.1345	0.0240	−0.0174	−0.0675	0.0744	−0.0463	0.0423	0.0503	−0.2125	0.2542	−0.0251	0.1734	0.2993	1.0000	−0.0792
Rejection	0.5926	0.3035	0.0550	0.1042	0.4964	0.5090	0.5255	0.5952	−0.0096	−0.1280	−0.0846	−0.0064	0.2314	−0.0792	1.0000

Correlation matrix for the third database DB3

Name	MW (g/mol)	Log Kow	LogD	Dipole (debye)	Length (nm)	Width (nm)	Depth (nm)	Eqwidth (nm)	MWCO (dalton)	SR ($MgSO_4$)	Zeta potential (mv)	Contact angle (°)	pH	Pressure (KPa)	Recovery (%)	Rejection (%)
MW(g/mol)	1.0000	0.4286	0.2112	0.0231	0.5670	0.5186	0.6016	0.6790	0.1062	−0.0885	−0.0077	−0.1023	0.0058	0.2566	0.1345	0.5926
Log Kow	0.4286	1.0000	0.7244	−0.3589	0.2507	0.1734	0.2982	0.3136	−0.0081	0.0051	−0.1369	0.0311	0.0944	−0.0929	0.0240	0.3035
LogD	0.2112	0.7244	1.0000	−0.3237	−0.0188	−0.0179	−0.0560	−0.0021	−0.0423	−0.0883	−0.1908	0.1770	0.1086	−0.3585	−0.0174	0.0550
Dipole	0.0231	−0.3589	−0.3237	1.0000	0.1890	0.2833	−0.0919	0.0394	0.3111	−0.1789	−0.0836	−0.0542	−0.1574	0.0968	−0.0675	0.1042
Length	0.5670	0.2507	−0.0188	0.1890	1.0000	0.4705	0.4365	0.5193	0.3705	−0.2034	−0.0152	−0.2005	−0.1263	0.3331	0.0744	0.4964
Width	0.5186	0.1734	−0.0179	0.2833	0.4705	1.0000	0.5584	0.7564	0.2522	−0.0199	−0.0207	−0.2488	−0.0986	0.2898	−0.0463	0.5090
Depth	0.6016	0.2982	−0.0560	−0.0919	0.4365	0.5584	1.0000	0.9060	0.1712	0.0013	0.0916	−0.2482	−0.0683	0.3951	0.0423	0.5255
Eqwidth	0.6790	0.3136	−0.0021	0.0394	0.5193	0.7564	0.9060	1.0000	0.2554	−0.0510	0.0462	−0.2401	−0.0871	0.3822	0.0503	0.5952
MWCO	0.1062	−0.0081	−0.0423	0.3111	0.3705	0.2522	0.1712	0.2554	1.0000	−0.7061	−0.0214	0.0656	−0.1579	−0.0142	−0.0339	0.0680
SR ($MgSO_4$)	−0.0885	0.0051	−0.0883	−0.1789	−0.2034	−0.0199	0.0013	−0.0510	−0.7061	1.0000	−0.0616	−0.1742	0.0328	0.0754	−0.2125	−0.0096
Zeta potential	−0.0077	−0.1369	−0.1908	−0.0836	−0.0152	−0.0207	0.0916	0.0462	−0.0214	−0.0616	1.0000	−0.0872	−0.2662	0.4186	0.2542	−0.1280
Contact angle	−0.1023	0.0311	0.1770	−0.0542	−0.2005	−0.2488	−0.2482	−0.2401	0.0656	−0.1742	−0.0872	1.0000	0.0201	−0.3606	−0.0251	−0.0846
pH	0.0058	0.0944	0.1086	−0.1574	−0.1263	−0.0986	−0.0683	−0.0871	−0.1579	0.0328	−0.2662	0.0201	1.0000	−0.0507	0.1734	−0.0064
Pressure	0.2566	−0.0929	−0.3585	0.0968	0.3331	0.2898	0.3951	0.3822	−0.0142	0.0754	0.4186	−0.3606	−0.0507	1.0000	0.2993	0.2314
Recovery	0.1345	0.0240	−0.0174	−0.0675	0.0744	−0.0463	0.0423	0.0503	−0.0339	−0.2125	0.2542	−0.0251	0.1734	0.2993	1.0000	−0.0792
Rejection	0.5926	0.3035	0.0550	0.1042	0.4964	0.5090	0.5255	0.5952	0.0680	−0.0096	−0.1280	−0.0846	−0.0064	0.2314	−0.0792	1.0000