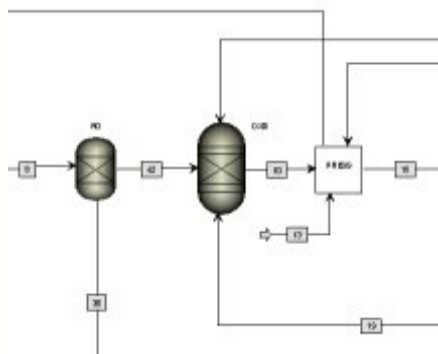


## PRODUCT DESCRIPTION SHEET

### UniSim™ OLI



UniSim OLI, based upon the OLI Alliance Engine, is a joint product of Honeywell and OLI Systems. This product allows the OLI thermophysical property framework to be specified as property package within UniSim. The complete OLI databank, for both aqueous and MSE-based chemical systems, and the accuracy of OLI's predictive electrolyte handling software produce accurate electrolyte simulations when and where you need them, within your current flowsheet simulator.

### FEATURES

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Electrolytes OLI Property Package</li> <li>• Electrolytes Component Database</li> <li>• Electrolyte Properties</li> <li>• Unit Operations</li> <li>• Electrolyte Column</li> </ul> | <p>Built on OLI's thermophysical property framework and available in UniSim along with all other fluid packages.</p> <p>Access to the complete OLI component databases for both aqueous and MSE-based systems in addition to UniSim's traditional databases</p> <p>Calculation and display of thermodynamic and transport properties specific to electrolyte systems such as pH, osmotic pressure, ionic strength and electrical conductivity.</p> <p>In addition to the UniSim range of unit operations, UniSim OLI has three additional electrolyte operations: Precipitator, Crystallizer, &amp; Neutralizer.</p> <p>OLI's column program for solving electrolyte towers.</p> |
|---|--|

### APPLICATIONS

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• pH control</li> <li>• Trace metal removal</li> <li>• Brine handling</li> <li>• Produced water management</li> <li>• Regulatory and environmental limits</li> <li>• Amines</li> <li>• Sour gas</li> <li>• Gas sweetening</li> <li>• Waste water treatment</li> </ul> | <ul style="list-style-type: none"> <li>• Chlor-alkali brines</li> <li>• Acid stream neutralization</li> <li>• Solids deposition</li> <li>• Organic acid removal in brines</li> <li>• Scrubbers</li> <li>• Caustic wash tower</li> <li>• Foul feed stripper</li> <li>• Multi-effect evaporator</li> </ul> |
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## PRODUCT DESCRIPTION SHEET

### CAPABILITIES

UniSim™ OLI is built on OLI's time-proven approach to electrolyte systems.

- Complete speciation**

The OLI model predicts and considers all of the true species in solution in the range of -50 to 300° C, 0 to 1500 bar, and 0 to 30 molal ionic strength and under the MSE option without limit on concentration.
- Robust standard state framework**

Based on the Helgeson equation of state, parameter regression and proprietary estimation techniques for the aqueous framework and on OLI technologies for the MSE framework.
- Activity coefficients for complex, high ionic strength systems.**

For the aqueous framework, based on the combined work of Bromley, Zemaitis, Meissner, Pitzer and OLI technologists. For MSE, based upon OLI development, published, and peer-reviewed.
- Comprehensive databanks**

The complete OLI databank with coverage for the electrolyte chemistry of 79 elements and thousands of organics. Data service provides customized coverage of client chemistry in the form of private databanks.
- Thermophysical properties**

OLI has developed unique chemical /physical based models to compute thermodynamic and transport properties for complex electrolyte mixtures.

### CONTACT US

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