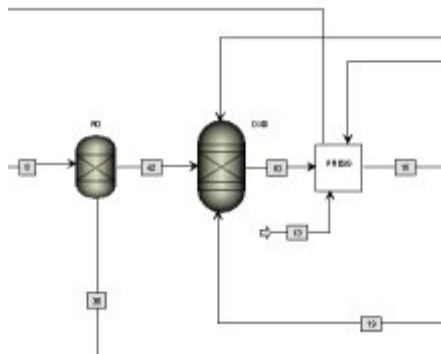


PRODUCT DESCRIPTION SHEET

HYSYS™ Electrolytes OLI (HEO)



HYSYS Electrolytes OLI (HEO) is a joint product of Aspen Tech and OLI Systems. This product allows the OLI thermodynamic framework to be specified as property package within HYSYS. The complete OLI thermodynamic databank and the accuracy of OLI's predictive aqueous electrolyte handling software produce accurate aqueous simulations when and where you need them, within your current flowsheet simulator.

FEATURES

- Electrolytes OLI Property Package
Built on OLI's aqueous thermodynamic framework and available in HYSYS along with all other fluid packages.
- Electrolytes Component Database
Access to the complete OLI aqueous component databases in addition to Hyprotech's traditional databases
- Electrolyte Properties
Calculation and display of thermodynamic and selected transport properties specific to aqueous electrolyte systems such as pH, osmotic pressure, ionic strength and electrical conductivity.
- Unit Operations
In addition to HYSYS™ range of unit operations, HEO has three additional electrolyte operations: Precipitator, Crystallizer, & Neutralizer.
- Electrolyte Column
OLI's column solution method for solving electrolyte towers.

APPLICATIONS

- pH control
- Trace metal removal
- Brine handling
- Produced water management
- Regulatory and environmental limits
- Amines
- Sour gas
- Gas sweetening
- Waste water treatment
- Chlor-alkali brines
- Acid stream neutralization
- Solids deposition
- Organic acid removal in brines
- Scrubbers
- Caustic wash tower
- Foul feed stripper
- Multi-effect evaporator



PRODUCT DESCRIPTION SHEET

CAPABILITIES

HYSYS Electrolytes 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.
- Robust standard state framework** Based on the Helgeson equation of state, parameter regression and proprietary estimation techniques
- Activity coefficients for complex, high ionic strength systems.** Based on the combined work of Bromley, Zemaitis, Meissner, Pitzer and OLI technologists
- 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 aqueous mixtures.

CONTACT US

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