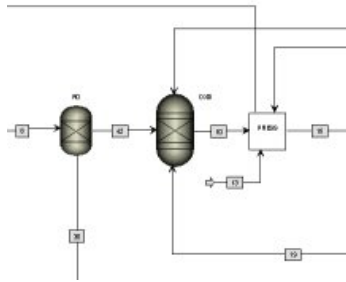


PRODUCT DESCRIPTION SHEET

PRO/II E – Full Databank



PRO/II E – Full Databank is a joint product by SimSci and OLI Systems. This product allows the OLI thermodynamic framework to be specified as property package within PRO/II as well as other elements of the SIM4ME suite of programs. The complete OLI databank and the accuracy of OLI's predictive 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 thermodynamic framework and available in PRO/II and as an optional thermodynamic package.
- **Electrolytes Component Database** Access to the complete OLI component databases in addition to SimSci's traditional databases.
- **Electrolyte Properties** Calculation and display of thermodynamic and transport properties specific to electrolyte systems such as pH, osmotic pressure, ionic strength and electrical conductivity.
- **Chemistry Wizard** To assist in component selection and chemistry model generation.

APPLICATIONS

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

BENEFITS

- **Common Interface** Use OLI's electrolyte package without learning a new interface to another software package
- **OLI Electrolytes within SimSci flowsheets** Use electrolyte handling when working with water-based streams, with "out-of-the-box" water chemistry simulation with OLI's complete Databank

PRODUCT DESCRIPTION SHEET

CAPABILITIES

PRO/II E – Full Databank 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, Zeimaitis, Meissner, Pitzer and OLI technologists
- Comprehensive databanks The Complete OLI databank with 80 inorganic associated compounds and complexes, and thousands of organics. Data service provides customized coverage of client chemistry in the form of private databanks.
- Thermo physical properties OLI has developed unique chemical /physical based models to compute thermodynamic and transport properties for complex aqueous mixtures.

CONTACT US

PRO/II E is sold as a joint product between SimSci (Invensys) and OLI Systems. To find out more, contact your SimSci Agent, your OLI Agent, or OLI directly.

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