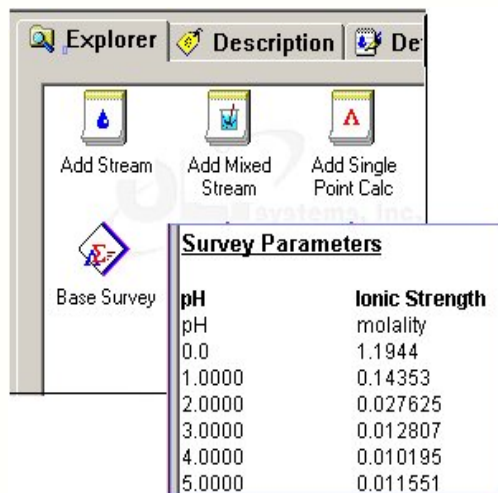


OLI Engine / Stream Analyzer UI



PRODUCT DESCRIPTION SHEET

The Stream Analyzer (SA) UI™ brings to life the OLI Engine for Windows in a form, which provides a virtual desktop chemistry laboratory on your PC. For real systems, which are both complex and concentrated, the SA can predict the significant, non-intuitive departure from ideal solution behavior. The software produces complete phase equilibrium and speciation, along with accurate thermophysical properties. The software calculates single point, multiple point, mix and separate operations, and can carry out further calculations on the mixed stream.

Lab Analyzer™ is a part of SA, which enables you to evaluate the quality of laboratory data, and then to enter the laboratory data (ionic composition) directly as stream information for SA. Used in conjunction with the Corrosion Analyzer as well, the Lab Analyzer™ provides the “translator” from real laboratory analyses to all other simulation.

SCORE™ is a part of SA, which enables an oil field user to enter stream information in a convenient manner.

FEATURES

- Flexible Stream Definition
- Single Point Calculations
- Survey Calculations
- Mix and separate
- Import/Export

The content of OLI's public databank is at the users fingertips via searches for a component by formula, common synonyms, organics structure to help locate organics or Names Dictionary to custom tailor the names of components you display.

Isothermal, adiabatic, bubble and dew points, set pH, precipitation point, composition targets, vapor fraction or amount equilibrium calculations can be calculated.

Temperature, pressure, composition, and pH surveys on any stream can be calculated. Both a primary (one variable adjustment) and a covariant (two variable adjustment) are supported. Graphical reporting of the results is readily available.

Allows for a sequence of calculations to be linked together.

A stream's electrolyte behavior can be analyzed while still modeling a process in your flowsheet simulator of choice.



PRODUCT DESCRIPTION SHEET

APPLICATIONS

- Four-phase flash
- pH adjustment
- Solids deposition
- Waste water treatment
- Upstream waste minimization
- Meeting regulatory limits
- Trace metal removal
- Laboratory water analysis, including reconciliations
- Process chemistry sensitivity studies
- Titration curves
- Reagent screening and selection
- Partitioning into second-liquid phase
- Precipitation of corrosive NH_4Cl and NH_4HS via sublimation or VLSE in refinery overheads.

CAPABILITIES

- **Aqueous model** The OLI aqueous model predicts and considers all of the true species in solution in the range of -50 to 300°C to 1500 bar, and 0 to 30 molal ionic strength.
- **Mixed solvent model** The OLI mixed solvent (MSE) model predicts and considers all of the true species in between are the range -30 to 90% of the critical point of the principal solvent, 0 - 1500 bar, and has no limits on concentration range.
- **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** The aqueous model is based on the combined work of Bromley, Zeimaitis, Meissner, Pitzer, and OLI technologists. The mixed solvent activity coefficient model is based on OLI's internal development now published and peer reviewed.
- **Comprehensive databanks** The complete OLI Databank with 79 inorganic associated compounds and complexes, 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, derived thermodynamic, and transport properties for complex aqueous as well as MSE-based mixtures.

CONTACT US

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