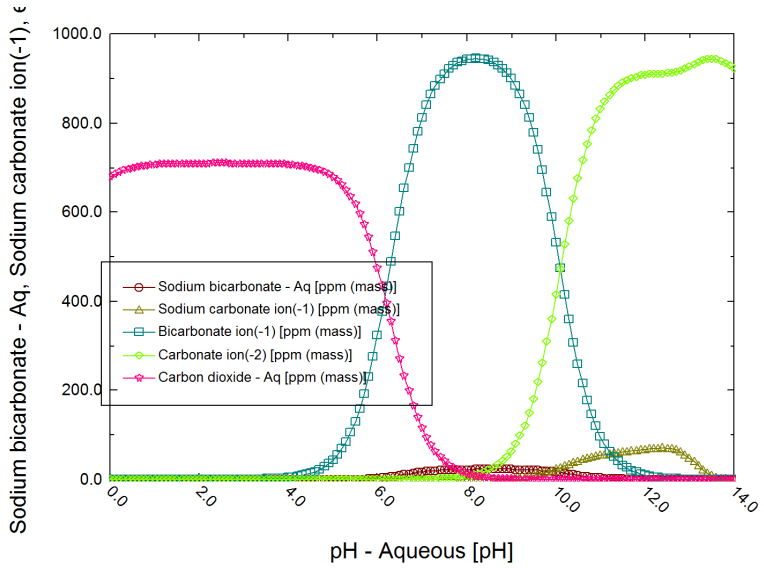
PRODUCT DESCRIPTION

The Analyzer Studio: Stream Analyzer



OLI's Stream Analyzer™ provides a basic and comprehensive interface to OLI's electrolyte thermodynamic framework. The result is a virtual electrolyte chemistry laboratory -- on your PC.

The Stream Analyzer accurately predicts the behavior of complex and concentrated electrolyte systems, using real solution theory to predict the significant and often non-intuitive departure from ideal solution behavior.

The software calculates complete phase equilibrium and speciation, along with thermophysical properties.

The Stream Analyzer™ is the base component of the Analyzer Studio.

The Lab Analyzer™ now comes standard with all copies of the Analyzer Studio. The Lab Analyzer works with ionic input as well as molecular flows. It provides reconciliation methods that allow you to evaluate the quality of laboratory data, identifying missing or inaccurate measurements. Once an ionic sample is reconciled, it can then be automatically translated into a stream structure for later calculations. Used in conjunction with all components in the Analyzer Studio, the Lab Analyzer™ provides the "translator" from real laboratory analyses to all other simulation.

FEATURES

• Flexible stream definition	The contents of OLI's extensive public databanks are available via search for components by formula, by common synonyms, or by using the Names Dictionary to custom tailor the display names of components to your names.
• Single Point calculations	Isothermal, adiabatic, bubble and dew points, set pH, precipitation point, com position targets, vapor fraction or amount equilibrium calculations can be calculated.
• Survey calculations	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.
• Mix & Separate	Allows for a sequence of calculations to be linked together.
• Flowsheet simulation link	In-depth studies of a stream's electrolyte behavior can be analyzed while still modeling the stream in your flowsheet simulator of choice.

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STREAM ANALYZER

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 300^0 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 –50 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.

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