DDBST
DORTMUND DATA BANK SOFTWARE & SEPARATION TECHNOLOGY

DDBST - Dortmund Data Bank Software & Separation Technology GmbH
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DDBSP 2016 – Predictive EOS

Calculation of Vapor-Liquid Equilibria, Two- and Three-Phase Flashes, Henry Coefficient Calculation, Solubility in Supercritical Fluids, Phase Envelopes, and Mixing Enthalpies with The group contribution equations of state models

PSRK and VTPR

Description

The stand-alone package Predictive EOS allows a multitude of multicomponent mixture calculations using the thermodynamic models Predictive Soave-Redlich-Kwong (PSRK) and Volume-Translated-Peng-Robinson (VTPR) equations of state. These include:

1. Vapor-liquid equilibria (VLE)
2. Vapor-liquid-liquid equilibria (VLLE)
3. Gas solubilities (GLE, Henry coefficients)
4. Supercritical fluid extraction (SCF)
5. Phase envelopes (P/T - curves)
6. Mixing enthalpies

The program handles bubble point, dew point and flash calculations. Results are displayed in tables and diagrams and can be copied to the Windows clipboard, saved to file or printed. The full set of DDB basic data is included in the Predictive EOS license.
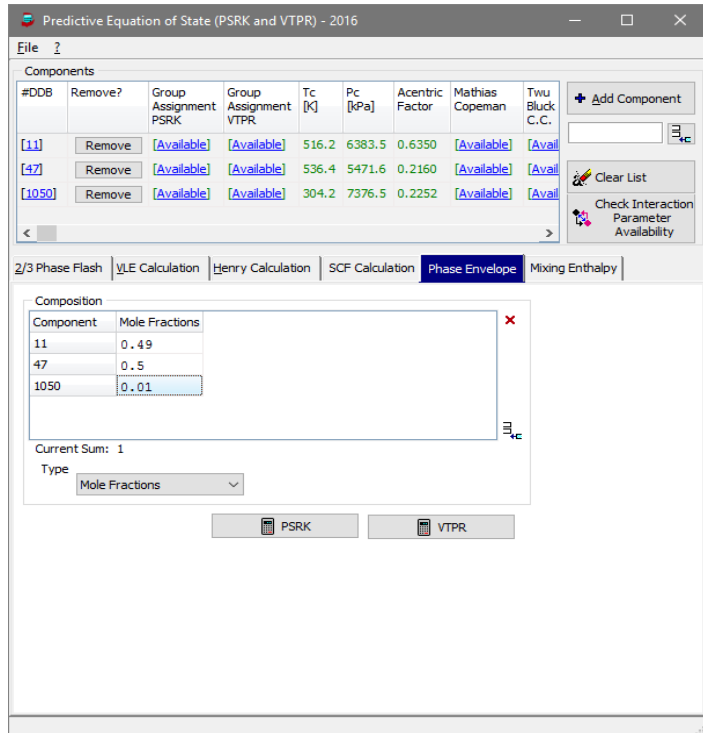
Applications

The methods and calculations are used in a large variety of applications also including risk assessment to calculate the maximum pressure in a vessel after overheating of a reaction system.

For integration into third party software via DLL or COM and special conditions for sub-licensing, please inquire.

Scope of Supply

The software comes with

- the latest published parameter matrices for both the estimation methods PSRK and VTPR.
- structural group lists for more than 17000 components

Members of the UNIFAC-Consortium (see <www.unifac.org>) have access to the latest PSRK parameters.
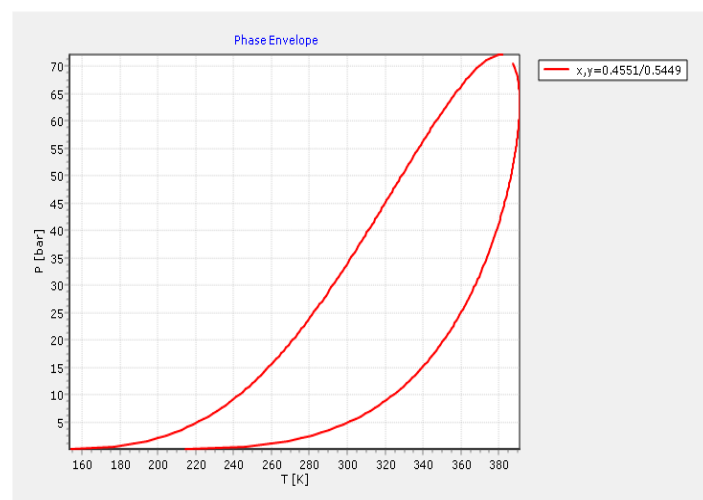
License

Basic price for a PC version[1]	3800 €
1-year license[2]	995 €
Yearly fee for a 7-year license[3]	1194 €

For more than one computer, special prices apply:

- 2 workstations or one single floating license: add 50%
- 3 workstations or two floating licenses: add 80%
- 4 workstations or three floating licenses: add 100%.

For other licenses please contact DDBST.

A discount of 75% is available for universities. Not available as site or world-wide license.

Phase Envelope Calculation with VTPR; Carbon dioxide and *n*-Butane

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[1] For approx. 16 $^2/_3$ % of the price, a yearly update is available

[2] Expires after one year

[3] The license includes 6 yearly updates. After 7 years, regular updates are available for 16 $^2/_3$ % of the basic price.