



For the calculation of the multicomponent mixture behavior using different  $g^E$  models the knowledge of the binary interaction parameters is required.

If these parameters are not available, they are usually derived from experimental vapor-liquid equilibrium data or other mixture data. If these data are also not available, group contribution methods can be used for the estimation of activity coefficients. Binary interaction parameters can then be derived from these values by non-linear regression.

In most cases, the parameters are directly calculated from only few estimated activity coefficients at infinite dilution. This procedure may in several cases result in very unreliable parameters.

The **DDBSP Model Parameter Estimator** employs a more complex and safe approach for homogeneous and heterogeneous systems. The package allows generating binary interaction parameters for the **Wilson**, **NRTL** and **UNIQUAC** model.

These parameters may be constant or linearly or quadratic dependent on temperature. The models **UNIFAC**, **mod. UNIFAC (Dortmund)**, **mod. UNIFAC (Lyngby)**, and **ASOG** are available for data estimation. **COSMO-RS(OI)** and **COSMO-SAC** are available upon request.

The software comes with

- the latest published parameter matrices for the estimation methods.
- structural group lists for more than 10900 components
- r, q and q' values (UNIQUAC) for more than 10900 components.
- liquid densities (Wilson) for approx. 1860 components

Members of the UNIFAC-Consortium (see [www.unifac.org](http://www.unifac.org)) have access to the latest UNIFAC and mod. UNIFAC parameters.

Component lists can be entered by hand or imported directly from the Aspen simulation object (OLE) or the "bcp" project file. Parameters can be exported to Microsoft Excel or Aspen® (via "inp"-file).

## License

Basic price for a PC version <sup>1</sup>	€ 1960
1-year license <sup>2</sup>	€ 490
Yearly fee for a 7-year license <sup>3</sup>	€ 590

For more than one computer, special prices apply: 2 workstations add 50%, 3 workstations add 80%, 4 workstations add 100%.

A discount of 50% is available for universities. Not available as site or world-wide license

## Contact Information

Visit [www.ddbst.com](http://www.ddbst.com) to view additional information or download the documentation, use the free DDB online search, or view the software presentations.

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<sup>1</sup> For approx. 16 2/3 % of the price, a yearly update is available

<sup>2</sup> Expires after one year

<sup>3</sup> The license includes 6 yearly updates. After 7 years, regular updates are available for approx. 16 2/3 % of the basic price.

