DDBSP 2018
Educational Version

Feature Matrix

DDBSP - Dortmund Data Bank Software Package

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	Educational Basic	Educational Professional	DDBSP Full Version
Retrieval			
Search, table, plot, print, data export	●	●	●
Prediction			
Predict g^E models (NRTL, Wilson, UNIQUAC)	○[1]	●	●
Predict group contribution (UNIFAC, Mod. UNIFAC (Dortmund), ASOG)	○[1]	●	●
Predict EOS (PSRK, VTPR)	○[1]	●	●
Predict COSMO-RS, COSMO-SAC	○[1]	●	●
Predict with Aspen (VLE, LLE, h^E, v^E, cp^E, γ^∞)	○[1]	●	●
Predict with PRO/II, UniSim Design, Simulis Thermodynamics (VLE, LLE)	○[1]	●	●
Flash EOS (PSRK, VTPR, several mixing rules)			●
Regression			
Simple fit g^E – temperature independent (NRTL, Wilson, UNIQUAC)	●	●	●
Fit EOS – temperature dependent (several mixing rules and alpha functions)	○[2]	○[2]	●
Extended fit PCP		○[3]	●
RecPar (simultaneous correlation of temperature dependent parameters for g^E models)	○[4]	○[5]	●
Pure Component Property Estimation with Group Contribution (GC) Models from Structures			
Artist (structure editor)	●	●	●
Structures (components)	750	56,900	56,900
GC models / properties	27 / 24	27 / 24	103 / 52
Process Synthesis			
Azeotropic point prediction, contour lines, residual curves			●
Entrainer Selection			●
Private Data Management			
Literature	●	●	●
Components, Structures	●	●	●
Mixture / Pure Component Data		●	●
Included Parameters			
Antoine Constants (components)	30	5,640	5,640
Included Experimental Data (DDB)			
Pure Component Data (components)	30	30	45,000
Data Sets (all properties)	81,300	81,300	1,056,500
Data Points (all properties)	591,300	591,300	7,883,900
Systems (all mixture properties)	1035	1035	153,900

[1] for the included 30 components only
[2] Redlich-Kwong EOS regression only
[3] for selected properties and equations including Wagner 2-5, DIPPR 101, 102, 104, 105 and 106
[4] 3-Suffix-Margules regression only
[5] NRTL, Wilson, UNIQUAC regression only