

DDBSP 2015

Teaching Edition

Feature Matrix

DDBSP - Dortmund Data Bank Software Package



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	Teaching Basic		Teaching Professional		DDBSP Full Edition	
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	○ ¹		•		•	
Predict with Aspen (VLE, LLE, h^E , v^E , cp^E , γ^∞)	○ ¹		•		•	
Predict with PRO/II, UniSim Design (VLE, LLE)	○ ¹		•		•	
Flash EOS (PSRK, VTPR)					•	
Flash EOS (several mixing rules)					•	
Regression						
Simple Fit g^E – temperature independent (NRTL, Wilson, UNIQUAC)	•		•		•	
Fit/Predict EOS – temperature dependent (several mixing rules and alpha functions)					•	
Extended Fit PCP			○ ²		•	
RecPar (simultaneous correlation of temperature dependent parameters for g^E models)	○ ³		○ ⁴		•	
PCP Property Estimation with Group Contribution (GC) Models from Structures						
Artist (Structure Editor)	•		•		•	
Structures (components)	750		44,400		44,400	
GC Models / Properties	27	24	27	24	99	52
Process Synthesis						
Azeotropic Point Prediction					•	
Entrainer Selection					•	
Contour Lines					•	
Residual Curves					•	
Private Data Management						
Literature	•		•		•	
Components, Structures	•		•		•	
Mixture / Pure Component Data			•		•	
Included Parameters						
Antoine Constants (components)	30		5,475		5,475	
Included Experimental Data (DDB)						
PCP Data (components)	30		30		32,950	
Data Sets (all properties)	75,300		75,300		894,600	
Data Points (all properties)	555,350		555,350		6,704,350	
Systems (all mixture properties)	1000		1000		138,400	

¹for the included 30 components only²for selected properties and equations including Wagner 2-5, DIPPR 101, 102, 104, 105 and 106³3-Suffix-Margules regression only⁴NRTL, Wilson, UNIQUAC regression only