

DDBSP 2021

Educational Version

Feature Matrix

DDBSP - Dortmund Data Bank Software Package



DDBST

Dortmund Data Bank
Software & Separation
Technology

DDBST Dortmund Data Bank Software & Separation Technology GmbH

Marie-Curie-Straße 10

D-26129 Oldenburg

Tel.: +49 441 36 18 19 0

Fax: +49 441 36 18 19 10

support@dbst.de

www.dbst.de

	DDBSP Educational Version		DDBSP Full Version	
Retrieval				
Search, table, plot, print, data export	•		•	
Prediction				
Predict g^E models (NRTL, Wilson, UNIQUAC)	•		•	
Predict group contribution (UNIFAC, Mod. UNIFAC (Dortmund))	•		•	
Predict EOS (PSRK, VTPR)	•		•	
Predict COSMO-RS, COSMO-SAC	•		•	
Predict with Aspen (VLE, LLE, h^E , v^E , cp^E , γ^∞)	•		•	
Predict with PRO/II, UniSim Design, Simulis Thermodynamics (VLE, LLE)	•		•	
Flash EOS (PSRK, VTPR, several mixing rules)			•	
Regression				
RecPar – parameter fitting for g^E models	○ ¹		•	
RecPar EOS – parameter fitting for cubic equations of state	○ ²		•	
RecPar Simulis – parameter fitting using Simulis Thermodynamics			•	
Extended PCP parameter fitting	○ ³		•	
Pure Component Property Estimation with Group Contribution (GC) Models from Structures				
Artist (structure editor)	•		•	
Structures (components)	70,000+		70,000+	
GC models / properties	25+	20+	100+	50+
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)	6,500+		6,500+	
Included Experimental Data (DDB)				
Pure Component Data (components)	30		50,000+	
Data Sets (all properties)	80,000+		1,200,000+	
Data Points (all properties)	600,000+		9,000,000+	
Systems (all mixture properties)	1000+		170,000+	

¹ NRTL, Wilson, UNIQUAC regression only² Redlich-Kwong EOS regression only³ for selected properties and equations including Wagner 2-5, DIPPR 101, 102, 104, 105 and 106