DDBSP 2006 Teaching Edition – Feature Matrix

	Basic Teaching Ed.	Professional T.E.	DDBSP Full Edition
Retrieval			
Search, Table, Plot, Print, Data Export	●	●	●
Calculation (Prediction)			
Predict g^E models (NRTL, Wilson, UNIQUAC)	●[1]	●[1]	●
Predict Group Contribution (UNIFAC, ASOG)	●[1]	●[1]	●
Predict EOS (PSRK, VTPR)	●	●	●
Predict COSMO-RS	●	●	●
Flash EOS (PSRK, VTPR)			●
Flash EOS (several mixing rules)			●
Calculation (Regression)			
Simple Fit g^E (temp. independent NRTL, Wilson, UNIQUAC)	●	●	●
Simple Fit EOS (some mixing rules, fixed alpha function)	●	●	●
Extended Fit/Predict EOS (several mix. rules, alpha func's.)			●
Extended Fit PCP			●
Recval (simultaneous correlation of temperature dependent parameters for g^E models)	○[2]	○[2]	●
PCP Property Estimation with Group Contribution (GC) Models from Structures			
Artist (Structure Editor)	●	●	●
Structures for	750 components	19300 components	19300 components
GC Models/Properties	26/24	26/24	73/33
Process Synthesis			
Azeotropic Point Prediction			●
Entrainer Selection			●
Contour Lines			●
Residual Curves			●
Private Data Management			
Literature	●	●	●
Components, Structures	●	●	●
Mixture Data		●	●
Pure Component Data		●	●
Included Experimental Data (DDB)			
PCP Data	30 components	30 components	15,387 components
Datasets (all properties)	47,438 datasets	47,438 datasets	427,243 datasets
Data Points (all properties)	347,913 data points	347,913 data points	2,923,860 data points
Systems (all mix. properties)	794 systems	794 systems	72,000 systems

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1   for the included 30 components only

2   3-Suffix-Margules (regression) and Raoult's Law (prediction) only