

## DDBSP 2006 Explorer Edition – Feature Matrix

	Explorer Edition	Basic Teaching Ed.	Professional T.E.
<b>Retrieval</b>			
Search, Table, Plot, Print	•	•	•
Data Export (Aspen, PPDx)		•	•
<b>Calculation (Prediction)</b>			
Predict $g^E$ models (NRTL, Wilson, UNIQUAC)	○ <sup>1</sup>	○ <sup>1</sup>	○ <sup>1</sup>
Predict Group Contribution (UNIFAC, ASOG)	○ <sup>1</sup>	○ <sup>1</sup>	○ <sup>1</sup>
Predict EOS (PSRK)	•	•	•
Predict EOS (VTPR)		•	•
Predict COSMO-RS		•	•
<b>Calculation (Regression)</b>			
Simple Fit $g^E$ (temp. independent NRTL, Wilson, UNIQUAC)	•	•	•
Simple Fit EOS (some mixing rules, fixed alpha function)	•	•	•
Recval (simultaneous correlation of temperature dependent parameters for $g^E$ models)		○ <sup>2</sup>	○ <sup>2</sup>
<b>PCP Property Estimation with Group Contribution (GC) Models from Structures</b>			
Artist (Structure Editor)	•	•	•
Structures for	750 components	750 components	19300 components
GC Models/Properties	10/17	26/24	26/24
<b>Private Data Management</b>			
Literature		•	•
Components, Structures		•	•
Mixture Data			•
Pure Component Data			•
<b>Included Experimental Data (DDB)</b>			
PCP Data	30 components	30 components	30 components
Datasets (all properties)	7,621 datasets	47,438 datasets	47,438 datasets
Data Points (all properties)	68,652 data points	347,913 data points	347,913 data points
Systems (all mix. properties)	800 systems	800 systems	800 systems

<sup>1</sup> for the included 30 components only

<sup>2</sup> 3-Suffix-Margules (regression) and Raoult's Law (prediction) only