



## DESIGN INSTITUTE FOR PHYSICAL PROPERTIES, PROJECT 801

### **Philosophy of the DIPPR® 801 database**

The objective of the DIPPR 801 pure-chemical database is to provide the most accurate recommendation of thermophysical property values available for selected chemicals of industrial priority.

### **Hallmarks of DIPPR 801**

1. Accuracy. The DIPPR 801 database is an evaluated database, meaning that all available data are assessed for accuracy, thermodynamic consistency, and reliability within chemical classes.
2. Completeness. All of the applicable property values are available for each of the compounds in the database. Where no experimental data are available, established and well-evaluated methods are used to predict the property value to provide the user with a complete dataset for each chemical.
3. Expert recommendation. Thorough, multi-dimensional analysis of the data by leading thermophysical property experts produces recommended values for all properties for each chemical in the database. While all the raw data are included in the database, recommended values represent weeks of analysis by thermodynamics experts using the composite of all the information in the database.

### **Benefits provided**

- Reduced calculation error
- Improved design and operations
- Reduced time and expense required for data research and evaluation