

DIPPR[®] 801 Pure Chemical Database

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The DIPPR[®] 801 electronic database is a dynamic collection of manually evaluated thermophysical property data for pure chemicals with an emphasis on quality and completeness. Experimental property values are critically evaluated for measurement accuracy as well as internal consistency between all related properties and chemically related compounds to provide recommended values and temperature-dependent correlations and uncertainties of the values. Where experimental data are not available, recommended values, temperature-dependent correlations, and associated uncertainties are predicted using a hierarchy of well-tested prediction methods. Currently, the DIPPR[®] 801 database contains recommendations for 34 constant properties and 15 temperature-dependent properties for 2,100 compounds. New compounds are added and reviews and updates of compounds are made each year under the direction of the DIPPR sponsoring companies.

The DIPPR[®] Interface and Data Evaluation Manager (DIADDEM) is an interface and data analysis tool designed for use with the DIPPR[®] 801 database and with user-developed databases. This software tool allows data search, organization, graphical comparison of multiple properties or compounds, temperature-dependent property regression from raw data, property prediction using a 200-method property prediction package, and prediction method evaluation.