

Infotherm: Thermophysical Data of Mixtures and Pure Compounds

J. Homann ^{C, S} and M. Schmidt
FIZ CHEMIE Berlin, Berlin, Germany
homann@fiz-chemie.de

The database Infotherm, available via the Internet and as an inhouse-version, comprises 172,000* tables of PVT-properties, phase equilibria, transport and surface properties, caloric properties, acoustic and optical properties of 26,000* mixtures and 7,000* pure compounds taken from journals, data collections, manuals and measurement reports some of which are exclusive to Infotherm. The database offers simple as well as complex search functions in order to combine 98 properties, 25 conditions, 22 types of equilibria, 10 chemical systems, definable value ranges, substance names, formulas and CAS registry numbers by boolean operators. Infotherm was relaunched in November 2005 with a new download-option in ThermoML-Format, an XML-based IUPAC standard for experimental thermodynamic property data storage and exchange. The improved search procedure, the data sources and types and the quality assurance will be presented as well as the roadmap for further developments.

* January 2006