

Web-Oracle Dissemination System for NIST/TRC Databases

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Infrastructure developed and implemented at NIST/Boulder for web-based dissemination of NIST/TRC databases for chemistry and chemical engineering (managed with the Oracle database management system) is described. Emphasis is placed on the development of a web site for the Ionic Liquids Database, ILThermo, designed for the storage and retrieval of thermophysical property data for ionic liquids and their mixtures. The use of this newly developed data dissemination channel will be demonstrated with various NIST databases created for property data for biochemicals. Structural features, major components, and operational advantages of this system will be outlined along with usage potential. Current usage, data update facilities and future plans for data products will also be described.