

Critically Evaluated Database of Environmental Properties

Sarah Brockbank^{C, S}, Jenna Russon, Neil Giles, Richard Rowley and Vince Wilding
Brigham Young University, Provo, UT, U.S.A.
spurcell86@hotmail.com

A database containing Henry's law constants, infinite dilution activity coefficients and solubility data has been compiled for aqueous systems. These properties are important in predicting the fate and transport of chemicals in the environment. The structure of this database is compatible with the existing DIPPR[®] 801 database and DIADEM interface, and data are included for a subset of compounds found in the DIPPR[®] 801 database. Compounds included are those that are commonly used in industry covering an array of chemical families. Data quality and thermodynamic consistency checks have been considered in order to designate recommended values. This database has been used to further develop property prediction methods.