



websites of note

by Zoltan Nagy

Physical Properties of Ionic Liquids: Database and Evaluation

A comprehensive database on physical properties of ionic liquids, which was collected from 109 published sources spanning the period from 1984 through 2004. There are 1680 pieces of data on the physical properties for 588 available ionic liquids. From these the values for 276 kinds of cations and 55 kinds of anions were extracted. Contents: 1. The Classification of Ionic Liquids. Phase transition temperature: Melting point, Glass Transition Point, Decomposition Point, Freezing Point, and Clearing Point. 2. Density, Viscosity and Surface Tension. 3. Conductivity, Polarity, and Electrochemical Window. 43 pages.

- S. Zhang, et al., Chinese Academy of Sciences
- <http://www.nist.gov/data/PDFfiles/jpcrd721.pdf>

A Catalog of Commercially Available Ionic Liquids

Ionic liquids are ionic, salt-like materials that are liquid below 100 °C. Their use can be classified as process chemicals (e.g., solvents, separation media) and performance chemicals (e.g., electrolytes, lubricants). Ionic liquids tend to have appealing solvent properties and are miscible with water or organic solvents. Sigma-Aldrich offers a market-leading range of ammonium-, imidazolium-, phosphonium-, pyridinium-, pyrrolidinium-, sulfonium-, etc.-based ionic liquids.

- Sigma-Aldrich
- <http://www.sigmaaldrich.com/chemistry/chemistry-products.html?TablePage=16255866>

A Listing of Recent Publications on Ionic Liquids

The peer-reviewed articles on this *ChemComm* web themed issue highlight recent cutting edge achievements from prominent scientists working on all aspects of ionic liquid chemistry. Contributions range from new fundamental knowledge to novel applications of ionic liquids that take advantage of their unique attributes. The guest editors for this issue are Robin D. Rogers (University of Alabama), Douglas MacFarlane (Monash University) and Suojing Zhang (Institute of Process Engineering).

- Royal Society of Chemistry
- <http://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=cc&themeid=d3759160-edca-4baf-871d-b8873930c974>

About the Author

ZOLTAN NAGY is a semi-retired electrochemist. After 15 years in a variety of electrochemical industrial research, he spent 30 years at Argonne National Laboratory carrying out research on electrode kinetics and surface electrochemistry. Presently he is at the Chemistry Department of the University of North Carolina at Chapel. He welcomes suggestions for entries; send them to nagy@email.unc.edu.

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