Tetra-N-butylammonium chloride

Other names:	1-butanaminium, N,N,N-tributyl-, chloride
	tetrabutylammonium chloride
Inchi:	InChI=1S/C16H36N.ClH/c1-5-9-13-17(14-10-6-2,15-11-7-3)16-12-8-4;/h5-16H2,1-4H3;1H
InchiKey:	NHGXDBSUJJNIRV-UHFFFAOYSA-M
Formula:	C16H36ClN
SMILES:	CCCC[N+](CCCC)(CCCC)CCCC.[Cl-]
Mol. weight [g/mol]:	277.92
CAS:	1112-67-0

Physical Properties

Property code	Value	Unit	Source
hfs	-564.80 ± 3.10	kJ/mol	NIST Webbook
tf	342.82	K	Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data
tf	310.00 ± 1.00	K	NIST Webbook

Sources

Experimental determination of the LLE data of systems consisting of {hexane + benzene + deep eutectic solvent} and prediction using the Conductor-like Screening Model for Real Solvents:	https://www.doi.org/10.1016/j.jct.2016.09.021
Molar Heat Capacity of Selected Type III Deep Eutectic Solvents:	https://www.doi.org/10.1021/acs.jced.5b00989
Carbon Dioxide Solubilities in Decanoic Acid-Based Hydrophobic Deep Eutectic Solvents:	https://www.doi.org/10.1021/acs.jced.7b00534
Phase diagrams of ionic liquids-based aqueous biphasic systems as a platform for extraction processes:	https://www.doi.org/10.1016/j.jct.2013.10.024
Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data:	https://www.doi.org/10.1016/j.fluid.2017.03.015
Investigation of solubilities of carbon dioxide in five levulinic acid-based deep eutectic solvents and their thermophysical properties:	https://www.doi.org/10.1016/j.jct.2016.08.015
Salting in and salting out effects of organic and inorganic ammonium salts on the aqueous polymer solutions:	https://www.doi.org/10.1016/j.jct.2018.03.030
Efficient Reversible Nitric Oxide Absorption by Low-Viscosity, Azole-Derived Deep Eutectic Solvents:	https://www.doi.org/10.1021/acs.jced.9b00173
NIST Webbook	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1112670&Units=SI
Tetrabutylammonium Chloride Based Ionic Liquid Analogues and Their Physical Properties:	https://www.doi.org/10.1021/je5002126

Legend

hfs:	Solid phase enthalpy of formation at standard conditions
tf:	Normal melting (fusion) point