

# 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 Carbon Dioxide Solubilities in Organic Acid-Base and Hydrophobic Deep Eutectic Solvent Mixtures of Ionic Liquids-based aqueous biphasic systems as a platform for extraction processes: <https://www.doi.org/10.1016/j.jct.2016.09.021>
- Efficient and Reversible Nitric Oxide Absorption by Low-Viscosity, Hydrophobic Deep Eutectic Solvents: <https://www.doi.org/10.1021/acs.jced.7b00534>
- Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data: <https://www.doi.org/10.1016/j.jct.2013.10.024>
- Tetra-n-butylammonium Chloride Based Ionic Liquid Analogues and Their Investigation Properties: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1112670&Units=SI>
- Molar Heat Capacity of Selected Type III Deep Eutectic Solvents: <https://www.doi.org/10.1021/acs.jced.9b00173>
- Properties of choline chloride from solid-liquid equilibria data: <https://www.doi.org/10.1016/j.fluid.2017.03.015>
- Investigation Properties of carbon dioxide in five levulinic acid-based deep eutectic solvents and their organic and inorganic ammonium salts: <https://www.doi.org/10.1021/je5002126>
- Molar Heat Capacity of Selected Type III Deep Eutectic Solvents: <https://www.doi.org/10.1016/j.jct.2016.08.015>
- Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data: <https://www.doi.org/10.1016/j.jct.2018.03.030>
- Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data: <https://www.doi.org/10.1021/acs.jced.5b00989>

# Legend

**hfs:** Solid phase enthalpy of formation at standard conditions

**tf:** Normal melting (fusion) point

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