

# Tetra-n-butylammonium iodide

## Other names:

1-Butanaminium, N,N,N-tributyl-, iodide

Ammonium, tetrabutyl-, iodide

Tetra-N-butylammoniumjodid

Tetrabutylammonium iodide

Tetrabutylammonium iodidide

**Inchi:** InChI=1S/C16H36N.HI/c1-5-9-13-17(14-10-6-2,15-11-7-3)16-12-8-4;/h5-16H2,1-4H3;1H/

**InchiKey:** DPKBAXPHAYBPRL-UHFFFAOYSA-M

**Formula:** C16H36IN

**SMILES:** CCCC[N+](CCCC)(CCCC)CCCC.I

**Mol. weight [g/mol]:** 369.37

**CAS:** 311-28-4

## Physical Properties

Property code	Value	Unit	Source
hfus	9.00	kJ/mol	Thermodynamic properties of tetrabutylammonium iodide and tetrabutylammonium tetraphenylborate

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C311284&Units=SI>

**Effect of N-acetylglycine on volumetric and acoustic behaviour of aqueous tetrabutylammonium iodide solutions** <https://www.doi.org/10.1016/j.jct.2015.12.023>

**Thermodynamic properties of tetrabutylammonium iodide and tetrabutylammonium tetraphenylborate** <https://www.doi.org/10.1016/j.tca.2008.10.017>

**Thermodynamic properties of tetrabutylammonium iodide and tetrabutylammonium tetraphenylborate** <https://www.doi.org/10.1021/acs.jced.5b00198>

**Viscosities of Some Amino Acids with Aqueous Tetra-n-Butylammonium Iodide** <https://www.doi.org/10.1021/je800885h>

**Some Tetra-n-butylammonium Iodides in Binary Mixtures of Carbon Dioxide, Nitrogen, and Ethane** <https://www.doi.org/10.1021/je9006184>

**Thermodynamic Properties of NaCl, KCl, NaBr, NaI, NaBF<sub>4</sub>, and Bu<sub>4</sub>NI in Water + 2-Ethoxyethanol Mixtures at 298.15 K:**

## Legend

**hfus:** Enthalpy of fusion at standard conditions

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