

Ethanaminium, N,N,N-triethyl-, iodide

Other names:	Ammonium, tetraethyl-, iodide Tetraethylammonium iodide Tetramon iodide Tetramon-I
Inchi:	InChI=1S/C8H20N.HI/c1-5-9(6-2,7-3)8-4;/h5-8H2,1-4H3;1H/q+1;/p-1
InchiKey:	UQFSVBXCNGCBBW-UHFFFAOYSA-M
Formula:	C8H20IN
SMILES:	CC[N+](CC)(CC)CC.[I-]
Mol. weight [g/mol]:	257.16
CAS:	68-05-3

Physical Properties

Property code	Value	Unit	Source
ss	311.30	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	254.00	J/molxK	298.15	NIST Webbook
cps	254.40	J/molxK	298.15	NIST Webbook

Sources

Isopiestic determination of the osmotic and activity coefficients of dilute solutions of tetraethylammonium iodide in water and in the series of organic solvents. <https://www.doi.org/10.1016/j.fluid.2006.09.025>

Investigation of the solvent interactions of quaternary ammonium salts. <https://www.doi.org/10.1016/j.jct.2015.08.009>

Thermodynamic study of N-acetyl-L-glutamate in aqueous tetraethylammonium iodide solutions at different temperatures with reference to the thermodynamic data of the binary systems. <https://www.doi.org/10.1016/j.jct.2015.10.022>

Thermodynamic properties and the thermodynamic data of the binary systems of tetraethylammonium iodide with water and organic solvents. <https://www.doi.org/10.1016/j.jct.2018.03.032>

Thermodynamic properties of tetraethylammonium iodide in water and organic solvents. <https://www.doi.org/10.1021/je0502039>

Thermodynamic properties of tetraethylammonium iodide in water and organic solvents. <https://www.doi.org/10.1021/je500621v>

Thermodynamic properties of tetraethylammonium iodide in water and organic solvents. <https://www.doi.org/10.1021/je900542y>

Thermodynamic properties of tetraethylammonium iodide in water and organic solvents. <http://webbook.nist.gov/cgi/cbook.cgi?ID=C68053&Units=SI>

Legend

cps: Solid phase heat capacity
ss: Solid phase molar entropy at standard conditions

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