

Tetramethylammonium iodide

Other names:	Ammonium, tetramethyl-, iodide Artilacer Banikol Methanaminium, N,N,N-trimethyl-, iodide TMAI Yodurtan
Inchi:	InChI=1S/C4H12N.HI/c1-5(2,3)4;/h1-4H3;1H/q+1;/p-1
InchiKey:	RXMRGBVLCSYIBO-UHFFFAOYSA-M
Formula:	C4H12IN
SMILES:	C[N+](C)(C)C.[I-]
Mol. weight [g/mol]:	201.05
CAS:	75-58-1

Physical Properties

Property code	Value	Unit	Source
ss	207.90	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	161.00	J/molxK	298.15	NIST Webbook
cps	160.79	J/molxK	298.15	NIST Webbook

Sources

- Surface and Micellar Properties of Ionic Liquid 1-Dodecyl-3-methylimidazolium Bromide in Aqueous Solution and Viscosity Behavior of Some Orange Acids in Organic Electrolyte: Tetramethylammonium Iodide Solutions at 298.15 K: <https://www.doi.org/10.1021/je5010005>
- Determination of the Osmotic and Activity Coefficients of Dilute Aqueous Solutions of Symmetrical Tetraalkyl Ammonium Halides at 308.15 K: <https://www.doi.org/10.1021/je7001418>
- Vapor Pressure Osmometry <http://webbook.nist.gov/cgi/cbook.cgi?ID=C75581&Units=SI>
- Determination of the Osmotic and Activity Coefficients of Dilute Aqueous Solutions of Symmetrical Tetraalkyl Ammonium Halides at 308.15 K: <https://www.doi.org/10.1021/je400821q>

Legend

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

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