tetramethylammonium bromide

Inchi:	InChI=1S/C4H12N.BrH/c1-5(2,3)4;/h1-4H3;1H/q+1;/p-1
InchiKey:	DDFYFBUWEBINLX-UHFFFAOYSA-M
Formula:	C4H12BrN
SMILES:	C[N+](C)(C)C.[Br-]
Mol. weight [g/mol]:	154.05
CAS:	64-20-0

Physical Properties

Property code	Value	Unit	Source
ss	200.79	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	159.40	J/mol×K	298.00	NIST Webbook
cps	161.67	J/mol×K	298.15	NIST Webbook

Sources

Electrical Conductivity Studies of Tetraalkylammonium Bromides in Aqueous Solutions at Several Temperatures:	https://www.doi.org/10.1021/je101043c
Effect of tetraalkylammonium bromides on the volumetric properties of glycine, L-alanine and glycylglycine at 298.15 K:	https://www.doi.org/10.1016/j.jct.2003.09.008
Vapor Pressure Osmometry 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
The capability of tetra alkyl ammonium bromides for aqueous biphasic systems and their physical properties in aqueous solutions:	https://www.doi.org/10.1016/j.fluid.2018.03.002
Thermodynamic properties of some amino acids in aqueous tetra-n-butylammonium bromide at different temperatures:	https://www.doi.org/10.1016/j.jct.2006.08.010
Surface and Bulk Properties of Ionic Liquid 1-Dodecyl-3-methylimidazolium Bromide in Aqueous Solution in the Presence and Absence of a Series of Tetraalkylammonium Bromide Salts in Dilute Electrolytes:	https://www.doi.org/10.1021/je5010005
Electrical Conductance of Some Tetraalkylammonium Bromide Salts in Binary Mixtures of Water (2) Methanol at (298.15, 308.15, and 318.15) K:	https://www.doi.org/10.1021/je4004405
Electrical Conductances of Tetrabutylammonium Bromide, Sodium Tetraphenylborate, and Sodium Bromide in Methanol (1) + Water (2) Mixtures at (298.15, 308.15, and 318.15) K:	https://www.doi.org/10.1021/je0600810
NIST Webbook:	http://webbook.nist.org/cgi/cbook.cgi?ID=C64200&Units=SI
Apparent Molar Volumes and Isentropic Compressibilities of Tetraalkylammonium Bromides in Methanol. An Attempt to Delineate Hydrophobic Effects:	https://www.doi.org/10.1021/acs.jced.5b00964
Viscometric study of glycine, L-alanine, glycylglycine in aqueous tetrabutylammonium bromide solutions at 298.15 K:	https://www.doi.org/10.1016/j.jct.2004.07.006
Temperature Dependence of Speeds of Sound for Solutions of Some Tetraalkylammonium Bromides in H2O and D2O at Temperatures in the Range (283.15 to 338.15) K:	https://www.doi.org/10.1021/je800908h

Legend

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