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

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
Apparent Molar Volumes and Isentropic Compressibilities of Tetraalkylammonium Bromides in Aqueous Propanol 2 Dioxin Attempt to Design Hydraulic Liquids:	https://www.doi.org/10.1021/acs.jced.5b00964
Electrical Conductivity Studies of Tetraalkylammonium Bromides in Aqueous Propanol 2 Dioxin Attempt to Design Hydraulic Liquids:	https://www.doi.org/10.1021/je101043c
The capability of tetra-alkyl ammonium bromides for aqueous biphasic systems formation with both polymers and electrolytes in aqueous solutions:	https://www.doi.org/10.1016/j.fluid.2018.03.002
Temperature study of glycine, L-alanine, glycylglycine in aqueous tetra-n-alkylammonium bromide solutions at 298.15 K:	https://www.doi.org/10.1016/j.jct.2004.07.006
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C64200&Units=SI
Effect of tetra-n-alkylammonium bromides on the volumetric properties of glycine, L-alanine and glycylglycine at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2003.09.008
Electrical Conductances of Tetrabutylammonium Bromide, Sodium Tetraphenylborate, and Sodium Bromide in Methanol (1) + Water (2) mixtures at (298.15, 303.15, and 313.15) K:	https://www.doi.org/10.1021/je0600810
Surface and Micellar Properties of Ionic Liquid 1-Dodecyl-3-methylimidazolium Bromide in Methanol (1) + Water (2) mixtures at (298.15, 303.15, and 313.15) K:	https://www.doi.org/10.1021/je5010005
Interactions of some Ammonium acids with tetra-n-alkylammonium bromides in Absence and Presence of a Series of Organic Electrolytes:	https://www.doi.org/10.1016/j.jct.2006.08.010
Temperature Dependence of Speeds of Sound for Solutions of Some Tetraalkylammonium Bromides in H2O and D2O at Temperatures in the Range (293.15 to 338.15) K:	https://www.doi.org/10.1021/je800908h
Electrical Conductance of Some Tetraalkylammonium Bromide Salts in 2-Butoxyethanol (1) + Water (2) mixtures at (298.15, 303.15, 308.15, and 313.15) K:	https://www.doi.org/10.1021/je4004405

Legend

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

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