

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

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

Interactions of some ex-amino acids with tetra-n-alkylammonium bromides in aqueous solution. <https://www.doi.org/10.1016/j.jct.2006.08.010>

Apparent Molar Volumes and Compressibilities of Tetraalkylammonium Bromides in Dilute Aqueous Solutions: A Comparison with the Data of Other Salts. <https://www.doi.org/10.1021/je800329m>

Surface and Micellar Properties of Ionic Liquid 1-Dodecyl-3-methylimidazolium Bromide in Aqueous Solution. <http://webbook.nist.gov/cgi/cbook.cgi?ID=C64200&Units=SI>

Effect of tetraalkylammonium bromides on the volumetric properties of organic electrolytes and glycylglycine at T = 298.15 K: Apparent Molar Volumes and Isentropic Compressibilities of Tetraalkylammonium Bromides in Aqueous Solution. <https://www.doi.org/10.1021/acs.jced.5b00964>

The capability of tetraalkylammonium bromides for aqueous two-phase extraction of poly(2-vinylpyridine) and poly(2-vinylpyridine-co-2-methyltetrahydrofuran) copolymers. <https://www.doi.org/10.1016/j.fluid.2018.03.002>

Sound velocity dependence of speeds of sound for tetraalkylammonium bromides in H₂O and D₂O at temperatures in the range 283.15–318.15 K. <https://www.doi.org/10.1021/je4004405>

Determination of the Osmotic and Electrical Conductance of Dilute Aqueous Solutions of Tetraalkylammonium Bromide. <https://www.doi.org/10.1021/je800908h>

Tetraalkylammonium Bromides in H₂O and D₂O at Temperatures in the Range 283.15–318.15 K. <https://www.doi.org/10.1021/je400821q>

Electrical Conductance of Dilute Aqueous Solutions of Tetraalkylammonium Bromide. <https://www.doi.org/10.1021/je0600810>

Acoustic Properties of Tetraalkylammonium Bromide in Methanol (1) + Water (2) Mixtures at (298.15, 308.15, and 318.15) K.

Electrical Conductivity Studies of
Tetraalkylammonium Bromides in
Aqueous Solutions of L-alanine,
L-proline and L-serine
tetra-n-alkylammonium bromide
solutions at 298.15 K:

<https://www.doi.org/10.1021/je101043c>

<https://www.doi.org/10.1016/j.jct.2004.07.006>

Legend

cps: Solid phase heat capacity

ss: Solid phase molar entropy at standard conditions

Latest version available from:

<https://www.cheméo.com/cid/31-378-8/Tetramethylammonium-bromide.pdf>

Generated by Cheméo on 2026-07-21 19:58:35.331024542 +0000 UTC m=+175011.172909950.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.