

Tetraethylammonium bromide

Other names:	Ammonium, tetraethyl-, bromide Beparon Bromethyl Bromure de tetraethylammonium Etambro Etamon Ethanaminium, N,N,N-triethyl-, bromide Ethylon Etylon Sympatektoman TEA TEA bromide TEAB TMD 10 Teamon Tetranium Tetrylammonium Bromide USAF do-32
Inchi:	InChI=1S/C8H20N.BrH/c1-5-9(6-2,7-3)8-4;/h5-8H2,1-4H3;1H/q+1;/p-1
InchiKey:	HWCKGOZZJDHMNC-UHFFFAOYSA-M
Formula:	C8H20BrN
SMILES:	CC[N+](CC)(CC)CC.[Br-]
Mol. weight [g/mol]:	210.16
CAS:	71-91-0

Physical Properties

Property code	Value	Unit	Source
tf	447.00 ± 2.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	246.90	J/molxK	298.00	NIST Webbook

hfust	20.30	kJ/mol	447.00	NIST Webbook
sfust	45.00	J/molxK	447.00	NIST Webbook

Sources

A model for excess volumes of salty water-acetonitrile mixtures at 298.15 K: Apparent Molar Volumes and Isentropic Compressibilities of <https://www.doi.org/10.1016/j.fluid.2011.09.016>

Salt aggregation and salting-out effects of organic and inorganic ammonium salts on the temperature dependence of the hair interaction between hydrophobic and hydrophilic studies of α -l-alanine, α -glycine in aqueous <https://www.doi.org/10.1021/acs.jced.5b00964>

Tetraalkylammonium Bromides in Aqueous Solutions: Parameters of Anionic Surfactant-Additive Systems at the Critical Point: A study of the excess molar volume of ternary mixtures containing standard partial molar volumes of some electrolytes in ethylene diol, or <https://www.doi.org/10.1016/j.jct.2018.03.030>

Tetraalkylammonium Bromides in Aqueous Solutions: Parameters of Anionic Surfactant-Additive Systems at the Critical Point: A study of the excess molar volume of ternary mixtures containing standard partial molar volumes of some electrolytes in ethylene diol, or <https://www.doi.org/10.1016/j.jct.2005.05.012>

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Tetraalkylammonium Bromides in Aqueous Solutions: Parameters of Anionic Surfactant-Additive Systems at the Critical Point: A study of the excess molar volume of ternary mixtures containing standard partial molar volumes of some electrolytes in ethylene diol, or <https://www.doi.org/10.1021/je4004405>

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Tetraalkylammonium Bromides in Aqueous Solutions: Parameters of Anionic Surfactant-Additive Systems at the Critical Point: A study of the excess molar volume of ternary mixtures containing standard partial molar volumes of some electrolytes in ethylene diol, or <https://www.doi.org/10.1016/j.jct.2006.08.010>

Interactions of some exogenous acids with tetra-n-alkylammonium bromides in aqueous medium at different temperatures:

Legend

- cps: Solid phase heat capacity
- hfust: Enthalpy of fusion at a given temperature
- sfust: Entropy of fusion at a given temperature
- tf: Normal melting (fusion) point

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