Cetrimonium Bromide

Other names:

1-hexadecanaminium, N,N,N-trimethyl-, bromide
1-hexadecyltrimethylammonium bromide
Acetoquat CTAB
Bromat
C.T.A.B.
CTAB
CTABr
Catinal HTB-70
Cee dee
Centimide
Cetab
Cetaflon
Cetarol
Cetavlex
Cetavlon
Cetavlon bromide
Cetrimide
Cetrimide bp
Cetylamine
Cirrasol OD
Cradocap
Ctmab
Cycloton V
HTAB
Hexadecanaminium, N,N,N-trimethyl-, bromide
Lissolamin V
Lissolamine
Lissolamine A
Lissolamine V
Micol
N,N,N-Trimethylammonium-1-hexadecanaminium bromide
N,N,N-Trimethylcetylammonium bromide
N,N,N-trimethyl-1-hexadecanaminium bromide
N,N,N-trimethylhexadecylammonium bromide
N-Cetyltrimethylammonium bromide
N-cetyl-N,N,N-trimethylammonium bromide
N-hexadecyl-N,N,N-trimethylammonium bromide
Pollacid
Quamonium
Rhodaquat M242B/99

	Softex KW
	Sumquat 6030
	Suticide
	Varisoft CTB-40
	ammonium, hexadecyltrimethyl-, bromide
	cetyltrimethylammonium bromide
	hexadecyltrimethylamine bromide
	hexadecyltrimethylammonium bromide
	hexdecyltrimethylammonium bromide
	n-Hexadecyltrimethylammonium bromide
	palmityltrimethylammonium bromide
	trimethylcetylammonium bromide
	trimethylhexadecylammonium bromide
Inchi:	InChI=1S/C19H42N.BrH/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20(2,3)4;/h5-19H2
InchiKey:	LZZYPRNAOMGNLH-UHFFFAOYSA-M
Formula:	C19H42BrN
SMILES:	Br.CCCCCCCCCCCCCCCC[N+](C)(C)C
Mol. weight [g/mol]:	364.45
CAS:	57-09-0

Physical Properties

Property code	Value	Unit	Source
tf	520.15	K	Synthesis and Physicochemical Properties of Double-Chain Cationic Surfactants

Sources

Volumetric Properties of Alkyltrimethylammonium Bromides in Aqueous Solutions:	https://www.doi.org/10.1021/acs.jced.5b00451
Synthesis and Physicochemical Properties of Double-Chain Cationic Surfactants:	https://www.doi.org/10.1021/acs.jced.5b00367
Ionic Liquid-Influenced Synergistic Interaction between Amitriptyline Hydrochloride and Cetyltrimethylammonium Bromide:	https://www.doi.org/10.1021/acs.jced.7b00233
Interactions of some amino acids and glycine peptides with aqueous sodium dodecyl sulfate and cetyltrimethylammonium bromide at T = 298.15 K: a volumetric approach:	https://www.doi.org/10.1016/j.jct.2003.09.010
Activity and thermodynamic parameters of some surfactants (polyhydroxy solute + CTAB + H2O) ternary solutions:	https://www.doi.org/10.1016/j.fluid.2012.01.014
Volumetric, viscometric and FTIR spectroscopic studies in (polyhydroxy solute + CTAB + H2O) ternary solutions:	https://www.doi.org/10.1016/j.jct.2017.04.001
Thermodynamics of Some Amphiphilic Drugs in Presence of Additives:	https://www.doi.org/10.1021/je900749a
Volumetric and calorimetric investigations of molecular interactions in some amino acids and peptides in the combined presence of surfactants and glycine betaine:	https://www.doi.org/10.1016/j.jct.2012.05.031

Solubility of 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol in Aqueous Pollutant Solutions:	https://www.doi.org/10.1021/je400602s
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C57090&Units=SI
Thermodynamic and micellization properties of aqueous cetyltrimethylammonium bromide solution in presence of 1-butyl-2,3-dimethylimidazolium bromide ionic liquid:	https://www.doi.org/10.1016/j.fluid.2015.12.042
Conductometric and fluorescence probe analysis on molecular micellization properties of glycyl dipeptide, concentration and temperature effect:	https://www.doi.org/10.1016/j.jct.2016.10.045
Densities and Viscosities of Citric Acid in Aqueous Cetrimonium Bromide Solutions at (293.15, 303.15, and 318.15) K:	https://www.doi.org/10.1021/je2000217
Micellization Properties of Cationic Monomeric and Gemini Surfactants:	https://www.doi.org/10.1021/je100113r
Apparent Molar Volumes and Viscosity B-Coefficients of Carbohydrates in Aqueous Cetrimonium Bromide Solutions at (298.15, 308.15, and 318.15) K:	https://www.doi.org/10.1021/je100211s
The Solubility Behavior of Bisphenol A in the Presence of Surfactants:	https://www.doi.org/10.1021/je700235x

Legend

tf: Normal melting (fusion) point

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