

DODECYLTRIMETHYLAMMONIUM CHLORIDE

Other names:	1-dodecanaminium, N,N,N-trimethyl-, chloride
	Adogen 412
	Alicop
	Aliquat 4
	Arquad 12
	Arquad 12-37W
	Arquad 12-50
	Arquad 12/50
	Arquad 12D
	Cation BB
	Cation FB
	Chemquat 12-50
	Dehyquart LT
	Dodecanaminium, N,N,N-trimethyl-, chloride
	Empigen 5089
	Laur-trimonium chloride
	Lauryltrimonium chloride
	N,N,N-trimethyl-1-dodecanaminium chloride
	N-dodecyl-N,N,N-trimethylammonium chloride
	Nissan Cation BB
	Octosol 562
	Rewoquat B18
	Trimethyl-1-dodecanaminium chloride
	Varisoft LAC
	ammonium, dodecyltrimethyl-, chloride
	lauryltrimethylammonium chloride
	monolauryltrimethylammonium chloride
	n-Dodecyl trimethyl amonium chloride
	n-dodecyltrimethylammonium chloride
	trimethyldodecylammonium chloride
	trimethyllaurylammonium chloride
Inchi:	InChI=1S/C15H34N.ClH/c1-5-6-7-8-9-10-11-12-13-14-15-16(2,3)4;/h5-15H2,1-4H3;1H/q
InchiKey:	DDXLVDQZPFLQMZ-UHFFFAOYSA-M
Formula:	C15H34ClN
SMILES:	CCCCCCCCCCCC[N+](C)(C)C.[Cl-]
Mol. weight [g/mol]:	263.90

Physical Properties

Property code	Value	Unit	Source
af	0.5433		Cheméo Relay (1.0)
gf	253.83	kJ/mol	Cheméo Relay (1.0, beta)
hf	-584.26	kJ/mol	Cheméo Relay (1.0)
hvap	79.45	kJ/mol	Cheméo Relay (1.0)
ie	10.31	eV	Cheméo Relay (1.0)
log10ws	-6.16		Cheméo Relay (1.0)
pc	1563.99	kPa	Cheméo Relay (1.0, beta)
tb	581.45	K	Cheméo Relay (1.0)
tc	703.13	K	Cheméo Relay (1.0)
tf	507.51	K	Cheméo Relay (1.0)
vc	0.869	m ³ /kmol	Cheméo Relay (1.0)

Sources

Micellar and Interfacial Behavior in
Mixtures of Dodecyldiethoxylamine
Oxidation Surfactants:

<https://www.doi.org/10.1021/je400431e>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C112005&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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