

Bromoacetic acid, tetradecyl ester

Other names:	Tetradecyl bromoacetate
Inchi:	InChI=1S/C16H31BrO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-19-16(18)15-17/h2-15H2,1H3
InchiKey:	JBGQZMPANSYTHT-UHFFFAOYSA-N
Formula:	C16H31BrO2
SMILES:	CCCCCCCCCCCCCOC(=O)CBr
Mol. weight [g/mol]:	335.32
CAS:	18992-01-3

Physical Properties

Property code	Value	Unit	Source
gf	-135.76	kJ/mol	Joback Method
hf	-592.04	kJ/mol	Joback Method
hfus	45.27	kJ/mol	Joback Method
hvap	66.80	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	5.626		Crippen Method
mcvol	261.240	ml/mol	McGowan Method
pc	1435.89	kPa	Joback Method
rinpol	2086.20		NIST Webbook
rinpol	2086.20		NIST Webbook
tb	707.93	K	Joback Method
tc	886.70	K	Joback Method
tf	402.04	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	728.59	J/molxK	707.93	Joback Method
cpg	804.95	J/molxK	856.90	Joback Method
cpg	791.21	J/molxK	827.11	Joback Method
cpg	776.72	J/molxK	797.31	Joback Method
cpg	761.48	J/molxK	767.52	Joback Method
cpg	745.44	J/molxK	737.72	Joback Method

cpg	817.97	J/molxK	886.70	Joback Method
dvisc	0.0001034	Paxs	707.93	Joback Method
dvisc	0.0001356	Paxs	656.95	Joback Method
dvisc	0.0001860	Paxs	605.97	Joback Method
dvisc	0.0002705	Paxs	554.99	Joback Method
dvisc	0.0004243	Paxs	504.00	Joback Method
dvisc	0.0007366	Paxs	453.02	Joback Method
dvisc	0.0014706	Paxs	402.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18992013&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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