

Ethyl 2-bromotetradecanoate

Other names:	Tetradecanoic acid, 2-bromo-, ethyl ester Ethyl «alpha»-bromomyristate
Inchi:	InChI=1S/C16H31BrO2/c1-3-5-6-7-8-9-10-11-12-13-14-15(17)16(18)19-4-2/h15H,3-14H2
InchiKey:	JQQZIRFEGUUJBP-UHFFFAOYSA-N
Formula:	C16H31BrO2
SMILES:	CCCCCCCCCCCCC(Br)C(=O)OCC
Mol. weight [g/mol]:	335.32
CAS:	14980-92-8

Physical Properties

Property code	Value	Unit	Source
gf	-138.20	kJ/mol	Joback Method
hf	-597.32	kJ/mol	Joback Method
hfus	41.74	kJ/mol	Joback Method
hvap	66.41	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	5.624		Crippen Method
mvol	261.240	ml/mol	McGowan Method
pc	1444.64	kPa	Joback Method
tb	707.49	K	Joback Method
tc	888.41	K	Joback Method
tf	387.04	K	Joback Method
vc	1.012	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.06	J/molxK	707.49	Joback Method
cpg	806.28	J/molxK	858.25	Joback Method
cpg	792.42	J/molxK	828.10	Joback Method
cpg	777.79	J/molxK	797.95	Joback Method
cpg	762.37	J/molxK	767.80	Joback Method
cpg	746.14	J/molxK	737.64	Joback Method
cpg	819.40	J/molxK	888.41	Joback Method

dvisc	0.0000956	Paxs	707.49	Joback Method
dvisc	0.0001277	Paxs	654.08	Joback Method
dvisc	0.0001796	Paxs	600.67	Joback Method
dvisc	0.0002699	Paxs	547.26	Joback Method
dvisc	0.0004431	Paxs	493.86	Joback Method
dvisc	0.0008202	Paxs	440.45	Joback Method
dvisc	0.0017995	Paxs	387.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14980928&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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