

Hexadecanoic acid, 2-hydroxyethyl ester

Other names:

Palmitic acid, 2-hydroxyethyl ester

Ethylene glycol monopalmitate

Glycol palmitate

Palmitoylglycol

2-Hydroxyethyl hexadecanoate

2-Hydroxyethyl palmitate

Glycol monopalmitate

Lanol P

NSC 406556

Inchi: InChI=1S/C18H36O3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-18(20)21-17-16-19/h19H,2-**InchiKey:** BXCRLBBIZJSWNS-UHFFFAOYSA-N**Formula:** C18H36O3**SMILES:** CCCCCCCCCCCCCCCC(=O)OCCO**Mol. weight [g/mol]:** 300.48**CAS:** 4219-49-2

Physical Properties

Property code	Value	Unit	Source
gf	-270.06	kJ/mol	Joback Method
hf	-811.88	kJ/mol	Joback Method
hfus	49.25	kJ/mol	Joback Method
hvap	81.50	kJ/mol	Joback Method
log10ws	-5.48		Crippen Method
logp	5.003		Crippen Method
mcvol	277.790	ml/mol	McGowan Method
pc	1268.25	kPa	Joback Method
rinpol	2214.00		NIST Webbook
rinpol	2200.00		NIST Webbook
rinpol	2214.00		NIST Webbook
rinpol	2200.00		NIST Webbook
tb	779.71	K	Joback Method
tc	956.20	K	Joback Method
tf	425.60	K	Joback Method
vc	1.087	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	866.51	J/molxK	779.71	Joback Method
cpg	883.52	J/molxK	809.12	Joback Method
cpg	899.68	J/molxK	838.54	Joback Method
cpg	915.01	J/molxK	867.95	Joback Method
cpg	929.52	J/molxK	897.37	Joback Method
cpg	943.25	J/molxK	926.78	Joback Method
cpg	956.22	J/molxK	956.20	Joback Method
dvisc	0.0013946	Paxs	425.60	Joback Method
dvisc	0.0004323	Paxs	484.62	Joback Method
dvisc	0.0001728	Paxs	543.64	Joback Method
dvisc	0.0000827	Paxs	602.65	Joback Method
dvisc	0.0000451	Paxs	661.67	Joback Method
dvisc	0.0000272	Paxs	720.69	Joback Method
dvisc	0.0000177	Paxs	779.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4219492&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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