

Octadeca-9,11-dienoic acid, 8-hydroxy-, methyl ester, trans, trans-

Inchi:	InChI=1S/C19H34O3/c1-3-4-5-6-7-8-9-12-15-18(20)16-13-10-11-14-17-19(21)22-2/h8-9,
InchiKey:	PKCCKXHHIREXLL-BRBUPDJYSA-N
Formula:	C19H34O3
SMILES:	CCCCCCC=CC=CC(O)CCCCCCC(=O)OC
Mol. weight [g/mol]:	310.47
CAS:	116595-30-3

Physical Properties

Property code	Value	Unit	Source
gf	-103.64	kJ/mol	Joback Method
hf	-603.36	kJ/mol	Joback Method
hfus	48.72	kJ/mol	Joback Method
hvap	83.25	kJ/mol	Joback Method
log10ws	-5.72		Crippen Method
logp	4.944		Crippen Method
mcvol	283.280	ml/mol	McGowan Method
pc	1282.83	kPa	Joback Method
tb	810.47	K	Joback Method
tc	995.23	K	Joback Method
tf	411.71	K	Joback Method
vc	1.097	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	876.15	J/molxK	810.47	Joback Method
cpg	892.58	J/molxK	841.26	Joback Method
cpg	908.19	J/molxK	872.06	Joback Method
cpg	923.01	J/molxK	902.85	Joback Method
cpg	937.08	J/molxK	933.64	Joback Method
cpg	950.47	J/molxK	964.44	Joback Method
cpg	963.20	J/molxK	995.23	Joback Method
dvisc	0.0014769	Paxs	411.71	Joback Method
dvisc	0.0003605	Paxs	478.17	Joback Method

dvisc	0.0001241	Paxs	544.63	Joback Method
dvisc	0.0000539	Paxs	611.09	Joback Method
dvisc	0.0000276	Paxs	677.55	Joback Method
dvisc	0.0000159	Paxs	744.01	Joback Method
dvisc	0.0000100	Paxs	810.47	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C116595303&Units=SI

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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