

Ethanol, 2-(9,12-octadecadienyloxy)-, (Z,Z)-

Other names:	2-cis,cis-9,12-Octadecadienyloxyethanol
Inchi:	InChI=1S/C20H38O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-19-22-20-18-21/h6-7,
InchiKey:	LPJRIXGJBNDMDD-HZJYTTRNSA-N
Formula:	C20H38O2
SMILES:	CCCCC=CCC=CCCCCCCCOCCO
Mol. weight [g/mol]:	310.51
CAS:	17367-08-7

Physical Properties

Property code	Value	Unit	Source
gf	36.14	kJ/mol	Joback Method
hf	-506.14	kJ/mol	Joback Method
hfus	53.24	kJ/mol	Joback Method
hvap	79.12	kJ/mol	Joback Method
log10ws	-6.25		Crippen Method
logp	5.809		Crippen Method
mcvol	295.800	ml/mol	McGowan Method
pc	1142.12	kPa	Joback Method
rinpol	2120.00		NIST Webbook
rinpol	2120.00		NIST Webbook
tb	779.92	K	Joback Method
tc	956.95	K	Joback Method
tf	388.05	K	Joback Method
vc	1.153	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	911.36	J/molxK	779.92	Joback Method
cpg	929.33	J/molxK	809.42	Joback Method
cpg	946.46	J/molxK	838.93	Joback Method
cpg	962.81	J/molxK	868.43	Joback Method
cpg	978.40	J/molxK	897.94	Joback Method
cpg	993.29	J/molxK	927.44	Joback Method

cpg	1007.51	J/molxK	956.95	Joback Method
dvisc	0.0018322	Paxs	388.05	Joback Method
dvisc	0.0004169	Paxs	453.36	Joback Method
dvisc	0.0001377	Paxs	518.67	Joback Method
dvisc	0.0000583	Paxs	583.98	Joback Method
dvisc	0.0000293	Paxs	649.30	Joback Method
dvisc	0.0000167	Paxs	714.61	Joback Method
dvisc	0.0000105	Paxs	779.92	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=C17367087&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
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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