Oleyl alcohol, methyl ether

Inchi: InChI=1S/C19H38O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-2/h10-11H,3-9,
InchiKey: IDBPDXGUJPANFU-KHPPLWFESA-N
Formula: C19H38O
SMILES: CCCCCCCCC=CCCCCCCCCOC
Mol. weight [g/mol]: 282.50

Physical Properties

Property code	Value	Unit	Source
gf	84.32	kJ/mol	Joback Method
hf	-450.49	kJ/mol	Joback Method
hfus	46.36	kJ/mol	Joback Method
hvap	60.26	kJ/mol	Joback Method
log10ws	-6.72		Crippen Method
logp	6.670		Crippen Method
mcvol	280.140	ml/mol	McGowan Method
pc	1105.94	kPa	Joback Method
rinpol	2006.40		NIST Webbook
rinpol	2006.40		NIST Webbook
tb	660.70	K	Joback Method
tc	825.49	K	Joback Method
tf	321.04	K	Joback Method
vc	1.097	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	794.41	J/mol×K	660.70	Joback Method
cpg	814.28	J/mol×K	688.17	Joback Method
cpg	833.31	J/mol×K	715.63	Joback Method
cpg	851.54	J/mol×K	743.10	Joback Method
cpg	868.97	J/mol×K	770.56	Joback Method
cpg	885.65	J/mol×K	798.03	Joback Method
cpg	901.60	J/mol×K	825.49	Joback Method
dvisc	0.0024655	Pa×s	321.04	Joback Method

dvisc	0.0008835	Pa×s	377.65	Joback Method
dvisc	0.0004138	Pa×s	434.26	Joback Method
dvisc	0.0002308	Pa×s	490.87	Joback Method
dvisc	0.0001453	Pa×s	547.48	Joback Method
dvisc	0.0000997	Pa×s	604.09	Joback Method
dvisc	0.0000730	Pa×s	660.70	Joback Method

Sources

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=U352680&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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