2-Hydroxyethyl undecanoate

Inchi: InChI=1S/C13H26O3/c1-2-3-4-5-6-7-8-9-10-13(15)16-12-11-14/h14H,2-12H2,1H3
InchiKey: DSNOKLUHSDWJTF-UHFFFAOYSA-N
Formula: C13H26O3
SMILES: CCCCCCCCCCC(=O)OCCO
Mol. weight [g/mol]: 230.34

Physical Properties

Property code	Value	Unit	Source
gf	-312.16	kJ/mol	Joback Method
hf	-708.68	kJ/mol	Joback Method
hfus	36.30	kJ/mol	Joback Method
hvap	70.37	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.053		Crippen Method
mcvol	207.340	ml/mol	McGowan Method
pc	1845.16	kPa	Joback Method
rinpol	1712.00		NIST Webbook
tb	665.31	K	Joback Method
tc	832.17	K	Joback Method
tf	369.25	K	Joback Method
vc	0.806	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	583.17	J/mol×K	665.31	Joback Method
cpg	597.40	J/mol×K	693.12	Joback Method
cpg	611.03	J/mol×K	720.93	Joback Method
cpg	624.05	J/mol×K	748.74	Joback Method
cpg	636.47	J/mol×K	776.55	Joback Method
cpg	648.32	J/mol×K	804.36	Joback Method
cpg	659.59	J/mol×K	832.17	Joback Method
dvisc	0.0035060	Pa×s	369.25	Joback Method
dvisc	0.0011030	Pa×s	418.59	Joback Method

dvisc	0.0004429	Pa×s	467.94	Joback Method
dvisc	0.0002116	Pa×s	517.28	Joback Method
dvisc	0.0001150	Pa×s	566.62	Joback Method
dvisc	0.0000689	Pa×s	615.97	Joback Method
dvisc	0.0000446	Pa×s	665.31	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=R540559&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