2-Undecanol, 6,10-dimethyl-

Other names: 6,10-dimethylundecan-2-ol
Inchi: InChI=1S/C13H28O/c1-11(2)7-5-8-12(3)9-6-10-13(4)14/h11-14H,5-10H2,1-4H3
InchiKey: GNJORAZPXCKMSY-UHFFFAOYSA-N
Formula: C13H28O
SMILES: CC(C)CCCC(C)CCCC(C)O
Mol. weight [g/mol]: 200.36
CAS: 38713-13-2

Physical Properties

Property code	Value	Unit	Source
gf	-85.56	kJ/mol	Joback Method
hf	-479.72	kJ/mol	Joback Method
hfus	22.95	kJ/mol	Joback Method
hvap	60.05	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	4.000		Crippen Method
mcvol	199.900	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
rinpol	1403.00		NIST Webbook
ripol	1740.00		NIST Webbook
tb	587.70	K	Joback Method
tc	752.56	K	Joback Method
tf	252.09	K	Joback Method
vc	0.764	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.75	J/mol×K	587.70	Joback Method
cpg	604.64	J/mol×K	725.08	Joback Method
cpg	591.12	J/mol×K	697.61	Joback Method
cpg	576.99	J/mol×K	670.13	Joback Method
cpg	562.24	J/mol×K	642.65	Joback Method
cpg	546.83	J/mol×K	615.18	Joback Method

cpg	617.56	J/mol×K	752.56	Joback Method
dvisc	0.0000590	Pa×s	587.70	Joback Method
dvisc	0.0001078	Pa×s	531.76	Joback Method
dvisc	0.0002270	Pa×s	475.83	Joback Method
dvisc	0.0005827	Pa×s	419.89	Joback Method
dvisc	0.0019987	Pa×s	363.96	Joback Method
dvisc	0.0107261	Pa×s	308.02	Joback Method
dvisc	0.1213287	Pa×s	252.09	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=C38713132&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume