

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/molxK	587.70	Joback Method
cpg	546.83	J/molxK	615.18	Joback Method
cpg	562.24	J/molxK	642.65	Joback Method
cpg	576.99	J/molxK	670.13	Joback Method
cpg	591.12	J/molxK	697.61	Joback Method
cpg	604.64	J/molxK	725.08	Joback Method

cpg	617.56	J/mol×K	752.56	Joback Method
dvisc	0.1213287	Paxs	252.09	Joback Method
dvisc	0.0107261	Paxs	308.02	Joback Method
dvisc	0.0019987	Paxs	363.96	Joback Method
dvisc	0.0005827	Paxs	419.89	Joback Method
dvisc	0.0002270	Paxs	475.83	Joback Method
dvisc	0.0001078	Paxs	531.76	Joback Method
dvisc	0.0000590	Paxs	587.70	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C38713132&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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

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