

4-Undecanol, 7-ethyl-2-methyl-

Other names:	7-Ethyl-2-methyl-4-undecanol 2-Methyl-7-ethyl-4-undecanol 7-Ethyl-2-methyl-4-hendecanol 7-ethyl-2-methylundecan-4-ol
Inchi:	InChI=1S/C14H30O/c1-5-7-8-13(6-2)9-10-14(15)11-12(3)4/h12-15H,5-11H2,1-4H3
InchiKey:	JKKBSZCOVNFRCQ-UHFFFAOYSA-N
Formula:	C14H30O
SMILES:	CCCCC(CC)CCC(O)CC(C)C
Mol. weight [g/mol]:	214.39
CAS:	103-20-8

Physical Properties

Property code	Value	Unit	Source
gf	-77.14	kJ/mol	Joback Method
hf	-500.36	kJ/mol	Joback Method
hfus	25.54	kJ/mol	Joback Method
hvap	62.27	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.390		Crippen Method
mcvol	213.990	ml/mol	McGowan Method
pc	1671.43	kPa	Joback Method
tb	537.45	K	NIST Webbook
tb	533.15	K	NIST Webbook
tc	775.11	K	Joback Method
tf	263.36	K	Joback Method
vc	0.821	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	583.71	J/mol×K	610.58	Joback Method
cpg	600.32	J/mol×K	638.00	Joback Method
cpg	616.24	J/mol×K	665.42	Joback Method
cpg	631.47	J/mol×K	692.84	Joback Method

cpg	646.05	J/molxK	720.26	Joback Method
cpg	659.99	J/molxK	747.69	Joback Method
cpg	673.32	J/molxK	775.11	Joback Method
dvisc	0.0858881	Paxs	263.36	Joback Method
dvisc	0.0080450	Paxs	321.23	Joback Method
dvisc	0.0015527	Paxs	379.10	Joback Method
dvisc	0.0004633	Paxs	436.97	Joback Method
dvisc	0.0001835	Paxs	494.84	Joback Method
dvisc	0.0000882	Paxs	552.71	Joback Method
dvisc	0.0000487	Paxs	610.58	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=C103208&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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