

2-methyl-2-tetradecanol

Inchi:	InChI=1S/C15H32O/c1-4-5-6-7-8-9-10-11-12-13-14-15(2,3)16/h16H,4-14H2,1-3H3
InchiKey:	IBIINSQLHLWOMP-UHFFFAOYSA-N
Formula:	C15H32O
SMILES:	CCCCCCCCCCCC(C)(C)O
Mol. weight [g/mol]:	228.41
CAS:	27570-83-8

Physical Properties

Property code	Value	Unit	Source
gf	-58.56	kJ/mol	Joback Method
hf	-513.91	kJ/mol	Joback Method
hfus	31.28	kJ/mol	Joback Method
hvap	64.37	kJ/mol	Joback Method
log10ws	-5.48		Crippen Method
logp	5.068		Crippen Method
mcvol	228.080	ml/mol	McGowan Method
pc	1541.49	kPa	Joback Method
rinpol	1630.80		NIST Webbook
rinpol	1630.80		NIST Webbook
tb	631.55	K	Joback Method
tc	795.55	K	Joback Method
tf	322.05	K	Joback Method
vc	0.883	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	639.49	J/mol×K	631.55	Joback Method
cpg	716.54	J/mol×K	768.22	Joback Method
cpg	702.51	J/mol×K	740.88	Joback Method
cpg	687.82	J/mol×K	713.55	Joback Method
cpg	672.44	J/mol×K	686.22	Joback Method
cpg	656.34	J/mol×K	658.88	Joback Method
cpg	729.95	J/mol×K	795.55	Joback Method

dvisc	0.0000438	Pa×s	631.55	Joback Method
dvisc	0.0000736	Pa×s	579.97	Joback Method
dvisc	0.0001369	Pa×s	528.38	Joback Method
dvisc	0.0002909	Pa×s	476.80	Joback Method
dvisc	0.0007426	Pa×s	425.22	Joback Method
dvisc	0.0024550	Pa×s	373.63	Joback Method
dvisc	0.0119050	Pa×s	322.05	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C27570838&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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