

1-Methoxy-2,14-dimethylpentacosane

Inchi:	InChI=1S/C28H58O/c1-5-6-7-8-9-11-14-17-20-23-27(2)24-21-18-15-12-10-13-16-19-22-2
InchiKey:	WEZDMOQZHVOWAU-UHFFFAOYSA-N
Formula:	C28H58O
SMILES:	CCCCCCCCCCCC(C)CCCCCCCCCCCC(C)COC
Mol. weight [g/mol]:	410.76

Physical Properties

Property code	Value	Unit	Source
gf	75.00	kJ/mol	Joback Method
hf	-764.03	kJ/mol	Joback Method
hfus	62.42	kJ/mol	Joback Method
hvap	79.56	kJ/mol	Joback Method
log10ws	-10.15		Crippen Method
logp	10.117		Crippen Method
mcvol	411.250	ml/mol	McGowan Method
pc	655.11	kPa	Joback Method
rinpol	2804.00		NIST Webbook
tb	861.58	K	Joback Method
tc	1056.81	K	Joback Method
tf	397.55	K	Joback Method
vc	1.609	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1385.30	J/mol×K	861.58	Joback Method
cpg	1410.65	J/mol×K	894.12	Joback Method
cpg	1434.56	J/mol×K	926.66	Joback Method
cpg	1457.08	J/mol×K	959.20	Joback Method
cpg	1478.28	J/mol×K	991.74	Joback Method
cpg	1498.19	J/mol×K	1024.27	Joback Method
cpg	1516.89	J/mol×K	1056.81	Joback Method
dvisc	0.0014446	Pa×s	397.55	Joback Method
dvisc	0.0003984	Pa×s	474.89	Joback Method

dvisc	0.0001576	Pa×s	552.23	Joback Method
dvisc	0.0000783	Pa×s	629.57	Joback Method
dvisc	0.0000453	Pa×s	706.90	Joback Method
dvisc	0.0000292	Pa×s	784.24	Joback Method
dvisc	0.0000204	Pa×s	861.58	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R547090&Units=SI

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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