

1-Methoxy-2,14,18-trimethylpentacosane

Inchi:	InChI=1S/C28H58O/c1-6-7-8-16-20-26(2)23-19-24-27(3)21-17-14-12-10-9-11-13-15-18-2
InchiKey:	ZQYZHPCBLFRFRW-UHFFFAOYSA-N
Formula:	C28H58O
SMILES:	CCCCCCC(C)CCCC(C)CCCCCCCCCCCC(C)COC
Mol. weight [g/mol]:	410.76

Physical Properties

Property code	Value	Unit	Source
gf	72.56	kJ/mol	Joback Method
hf	-769.31	kJ/mol	Joback Method
hfus	58.89	kJ/mol	Joback Method
hvap	79.17	kJ/mol	Joback Method
log10ws	-9.91		Crippen Method
logp	9.973		Crippen Method
mcvol	411.250	ml/mol	McGowan Method
pc	657.80	kPa	Joback Method
rinpol	2839.00		NIST Webbook
tb	861.14	K	Joback Method
tc	1055.60	K	Joback Method
tf	382.55	K	Joback Method
vc	1.603	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1385.67	J/molxK	861.14	Joback Method
cpg	1498.04	J/molxK	1023.19	Joback Method
cpg	1478.23	J/molxK	990.78	Joback Method
cpg	1457.14	J/molxK	958.37	Joback Method
cpg	1434.72	J/molxK	925.96	Joback Method
cpg	1410.91	J/molxK	893.55	Joback Method
cpg	1516.62	J/molxK	1055.60	Joback Method
dvisc	0.0000187	Paxs	861.14	Joback Method
dvisc	0.0000272	Paxs	781.38	Joback Method

dvisc	0.0000433	Paxs	701.61	Joback Method
dvisc	0.0000774	Paxs	621.85	Joback Method
dvisc	0.0001644	Paxs	542.08	Joback Method
dvisc	0.0004527	Paxs	462.31	Joback Method
dvisc	0.0019020	Paxs	382.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R547070&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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