1-Methoxy-2,26-dimethyloctacosane

Inchi: InChI=1S/C31H64O/c1-5-30(2)27-25-23-21-19-17-15-13-11-9-7-6-8-10-12-14-16-18-20-2
InchiKey: GRVOTNCYTGFORJ-UHFFFAOYSA-N
Formula: C31H64O
SMILES: CCC(C)CCCCCCCCCCCCCCCCCCCCCCCCC(C)COC
Mol. weight [g/mol]: 452.84

Physical Properties

Property code	Value	Unit	Source
gf	100.26	kJ/mol	Joback Method
hf	-825.95	kJ/mol	Joback Method
hfus	70.19	kJ/mol	Joback Method
hvap	86.23	kJ/mol	Joback Method
log10ws	-11.40		Crippen Method
logp	11.287		Crippen Method
mcvol	453.520	ml/mol	McGowan Method
pc	568.25	kPa	Joback Method
rinpol	3145.00		NIST Webbook
tb	930.22	K	Joback Method
tc	1151.85	K	Joback Method
tf	431.36	K	Joback Method
vc	1.778	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1586.99	J/mol×K	930.22	Joback Method
cpg	1614.94	J/mol×K	967.16	Joback Method
cpg	1641.03	J/mol×K	1004.10	Joback Method
cpg	1665.34	J/mol×K	1041.03	Joback Method
cpg	1687.98	J/mol×K	1077.97	Joback Method
cpg	1709.03	J/mol×K	1114.91	Joback Method
cpg	1728.59	J/mol×K	1151.85	Joback Method
dvisc	0.0009078	Pa×s	431.36	Joback Method
dvisc	0.0002514	Pa×s	514.50	Joback Method

dvisc	0.0000995	Pa×s	597.65	Joback Method
dvisc	0.0000494	Pa×s	680.79	Joback Method
dvisc	0.0000286	Pa×s	763.93	Joback Method
dvisc	0.0000184	Pa×s	847.08	Joback Method
dvisc	0.0000128	Pa×s	930.22	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=R547194&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