1-Methoxy-2,30-dimethyldotriacontane

Inchi: InChI=1S/C35H72O/c1-5-34(2)31-29-27-25-23-21-19-17-15-13-11-9-7-6-8-10-12-14-16-1
InchiKey: LVJPYQDARQPSOO-UHFFFAOYSA-N
Formula: C35H72O
SMILES: CCC(C)CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)COC
Mol. weight [g/mol]: 508.95

Physical Properties

Property code	Value	Unit	Source
gf	133.94	kJ/mol	Joback Method
hf	-908.51	kJ/mol	Joback Method
hfus	80.55	kJ/mol	Joback Method
hvap	95.14	kJ/mol	Joback Method
log10ws	-13.08		Crippen Method
logp	12.848		Crippen Method
mcvol	509.880	ml/mol	McGowan Method
pc	476.93	kPa	Joback Method
rinpol	3548.00		NIST Webbook
rinpol	3548.00		NIST Webbook
tb	1021.74	K	Joback Method
tc	1297.68	K	Joback Method
tf	476.44	K	Joback Method
vc	2.002	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1861.09	J/mol×K	1021.74	Joback Method
cpg	1893.84	J/mol×K	1067.73	Joback Method
cpg	1923.81	J/mol×K	1113.72	Joback Method
cpg	1951.21	J/mol×K	1159.71	Joback Method
cpg	1976.24	J/mol×K	1205.70	Joback Method
cpg	1999.11	J/mol×K	1251.69	Joback Method
cpg	2020.01	J/mol×K	1297.68	Joback Method
dvisc	0.0004785	Pa×s	476.44	Joback Method

dvisc	0.0001332	Pa×s	567.32	Joback Method
dvisc	0.0000528	Pa×s	658.21	Joback Method
dvisc	0.0000262	Pa×s	749.09	Joback Method
dvisc	0.0000151	Pa×s	839.97	Joback Method
dvisc	0.0000097	Pa×s	930.86	Joback Method
dvisc	0.0000068	Pa×s	1021.74	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=R547223&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