1-Methoxy-2,26-dimethylnonacosane

Inchi: InChI=1S/C32H66O/c1-5-27-31(2)28-25-23-21-19-17-15-13-11-9-7-6-8-10-12-14-16-18-2
InchiKey: VZFBDQBOXDOIAG-UHFFFAOYSA-N
Formula: C32H66O
SMILES: CCCC(C)CCCCCCCCCCCCCCCCCCCCCCCCC(C)COC
Mol. weight [g/mol]: 466.87

Physical Properties

Property code	Value	Unit	Source
gf	108.68	kJ/mol	Joback Method
hf	-846.59	kJ/mol	Joback Method
hfus	72.78	kJ/mol	Joback Method
hvap	88.46	kJ/mol	Joback Method
log10ws	-11.82		Crippen Method
logp	11.677		Crippen Method
mcvol	467.610	ml/mol	McGowan Method
pc	543.10	kPa	Joback Method
rinpol	3230.00		NIST Webbook
rinpol	3230.00		NIST Webbook
tb	953.10	K	Joback Method
tc	1186.03	K	Joback Method
tf	442.63	K	Joback Method
vc	1.833	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1655.05	J/mol×K	953.10	Joback Method
cpg	1684.04	J/mol×K	991.92	Joback Method
cpg	1710.99	J/mol×K	1030.74	Joback Method
cpg	1736.00	J/mol×K	1069.57	Joback Method
cpg	1759.19	J/mol×K	1108.39	Joback Method
cpg	1780.66	J/mol×K	1147.21	Joback Method
cpg	1800.53	J/mol×K	1186.03	Joback Method
dvisc	0.0007751	Pa×s	442.63	Joback Method

dvisc	0.0002149	Pa×s	527.71	Joback Method
dvisc	0.0000851	Pa×s	612.79	Joback Method
dvisc	0.0000422	Pa×s	697.87	Joback Method
dvisc	0.0000244	Pa×s	782.94	Joback Method
dvisc	0.0000157	Pa×s	868.02	Joback Method
dvisc	0.0000109	Pa×s	953.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R547189&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

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