1-Methoxy-2,14-dimethyltricosane

Inchi: InChI=1S/C26H54O/c1-5-6-7-8-12-15-18-21-25(2)22-19-16-13-10-9-11-14-17-20-23-26(3
InchiKey: LXVPVPHXQIMEKA-UHFFFAOYSA-N
Formula: C26H54O
SMILES: CCCCCCCCCC(C)CCCCCCCCCCCC(C)COC
Mol. weight [g/mol]: 382.71

Physical Properties

Property code	Value	Unit	Source
gf	58.16	kJ/mol	Joback Method
hf	-722.75	kJ/mol	Joback Method
hfus	57.24	kJ/mol	Joback Method
hvap	75.10	kJ/mol	Joback Method
log10ws	-9.31		Crippen Method
logp	9.337		Crippen Method
mcvol	383.070	ml/mol	McGowan Method
pc	724.57	kPa	Joback Method
rinpol	2606.00		NIST Webbook
rinpol	2606.00		NIST Webbook
tb	815.82	K	Joback Method
tc	998.80	K	Joback Method
tf	375.01	K	Joback Method
vc	1.498	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1253.40	J/mol×K	815.82	Joback Method
cpg	1277.41	J/mol×K	846.32	Joback Method
cpg	1300.17	J/mol×K	876.81	Joback Method
cpg	1321.73	J/mol×K	907.31	Joback Method
cpg	1342.12	J/mol×K	937.80	Joback Method
cpg	1361.39	J/mol×K	968.30	Joback Method
cpg	1379.57	J/mol×K	998.80	Joback Method
dvisc	0.0019511	Pa×s	375.01	Joback Method

dvisc	0.0005363	Pa×s	448.48	Joback Method
dvisc	0.0002121	Pa×s	521.95	Joback Method
dvisc	0.0001054	Pa×s	595.41	Joback Method
dvisc	0.0000611	Pa×s	668.88	Joback Method
dvisc	0.0000395	Pa×s	742.35	Joback Method
dvisc	0.0000276	Pa×s	815.82	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R547109&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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