Cyclopentane, 1-nonyl, 3-(3-methylpentadecyl)

Inchi: InChI=1S/C30H60/c1-4-6-8-10-12-13-14-16-17-19-21-28(3)23-24-30-26-25-29(27-30)22-
InchiKey: QIOAXSCBIPZQIO-UHFFFAOYSA-N
Formula: C30H60
SMILES: CCCCCCCCCCCCC(C)CCC1CCC(CCCCCCCCC)C1
Mol. weight [g/mol]: 420.80

Physical Properties

Property code	Value	Unit	Source
gf	228.12	kJ/mol	Joback Method
hf	-627.67	kJ/mol	Joback Method
hfus	64.94	kJ/mol	Joback Method
hvap	81.93	kJ/mol	Joback Method
log10ws	-11.55		Crippen Method
logp	11.271		Crippen Method
mcvol	422.700	ml/mol	McGowan Method
pc	643.20	kPa	Joback Method
rinpol	2945.00		NIST Webbook
rinpol	2945.00		NIST Webbook
tb	895.97	K	Joback Method
tc	1097.94	K	Joback Method
tf	419.52	K	Joback Method
vc	1.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1481.02	J/mol×K	895.97	Joback Method
cpg	1507.38	J/mol×K	929.63	Joback Method
cpg	1532.19	J/mol×K	963.29	Joback Method
cpg	1555.51	J/mol×K	996.95	Joback Method
cpg	1577.43	J/mol×K	1030.61	Joback Method
cpg	1598.04	J/mol×K	1064.27	Joback Method
cpg	1617.42	J/mol×K	1097.94	Joback Method
dvisc	0.0015963	Pa×s	419.52	Joback Method

dvisc	0.0005443	Pa×s	498.93	Joback Method
dvisc	0.0002494	Pa×s	578.34	Joback Method
dvisc	0.0001379	Pa×s	657.74	Joback Method
dvisc	0.0000867	Pa×s	737.15	Joback Method
dvisc	0.0000596	Pa×s	816.56	Joback Method
dvisc	0.0000438	Pa×s	895.97	Joback Method

Sources

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=R501207&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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