

Octacosane, 2,6,10,14,19,23-hexamethyl

Inchi:	InChI=1S/C34H70/c1-9-10-11-19-30(4)23-15-24-31(5)20-12-13-21-32(6)25-16-27-34(8)2
InchiKey:	PMARKHCYNHDESB-UHFFFAOYSA-N
Formula:	C34H70
SMILES:	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	478.92

Physical Properties

Property code	Value	Unit	Source
gf	220.76	kJ/mol	Joback Method
hf	-776.77	kJ/mol	Joback Method
hfus	62.68	kJ/mol	Joback Method
hvap	88.95	kJ/mol	Joback Method
log10ws	-12.60		Crippen Method
logp	12.645		Crippen Method
mcvol	489.920	ml/mol	McGowan Method
pc	508.64	kPa	Joback Method
rinsol	2979.00		NIST Webbook
tb	974.68	K	Joback Method
tc	1210.15	K	Joback Method
tf	382.94	K	Joback Method
vc	1.903	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1757.21	J/molxK	974.68	Joback Method
cpg	1887.19	J/molxK	1170.90	Joback Method
cpg	1864.68	J/molxK	1131.66	Joback Method
cpg	1840.57	J/molxK	1092.41	Joback Method
cpg	1814.71	J/molxK	1053.17	Joback Method
cpg	1786.97	J/molxK	1013.92	Joback Method
cpg	1908.25	J/molxK	1210.15	Joback Method
dvisc	0.0000075	Paxs	974.68	Joback Method
dvisc	0.0000115	Paxs	876.06	Joback Method

dvisc	0.0000198	Paxs	777.43	Joback Method
dvisc	0.0000398	Paxs	678.81	Joback Method
dvisc	0.0001014	Paxs	580.19	Joback Method
dvisc	0.0003795	Paxs	481.56	Joback Method
dvisc	0.0028031	Paxs	382.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R214087&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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