

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

Inchi:	InChI=1S/C32H66/c1-9-16-28(4)21-13-22-29(5)18-10-11-19-30(6)23-14-25-32(8)26-15-2
InchiKey:	ZEPYTFPGKAZHKE-UHFFFAOYSA-N
Formula:	C32H66
SMILES:	CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	450.87

Physical Properties

Property code	Value	Unit	Source
gf	203.92	kJ/mol	Joback Method
hf	-735.49	kJ/mol	Joback Method
hfus	57.50	kJ/mol	Joback Method
hvap	84.50	kJ/mol	Joback Method
log10ws	-11.77		Crippen Method
logp	11.865		Crippen Method
mcvol	461.740	ml/mol	McGowan Method
pc	555.72	kPa	Joback Method
rinsol	2800.00		NIST Webbook
tb	928.92	K	Joback Method
tc	1143.91	K	Joback Method
tf	360.40	K	Joback Method
vc	1.792	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1619.88	J/molxK	928.92	Joback Method
cpg	1742.88	J/molxK	1108.08	Joback Method
cpg	1721.34	J/molxK	1072.24	Joback Method
cpg	1698.38	J/molxK	1036.41	Joback Method
cpg	1673.88	J/molxK	1000.58	Joback Method
cpg	1647.75	J/molxK	964.75	Joback Method
cpg	1763.09	J/molxK	1143.91	Joback Method
dvisc	0.0000103	Paxs	928.92	Joback Method
dvisc	0.0000159	Paxs	834.17	Joback Method

dvisc	0.0000275	Paxs	739.41	Joback Method
dvisc	0.0000557	Paxs	644.66	Joback Method
dvisc	0.0001439	Paxs	549.91	Joback Method
dvisc	0.0005519	Paxs	455.15	Joback Method
dvisc	0.0042907	Paxs	360.40	Joback Method

Sources

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=R213995&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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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