

Heptacosane, 2,6,10,14,18,22-hexamethyl

Inchi:	InChI=1S/C33H68/c1-9-10-11-18-29(4)20-13-22-31(6)24-15-26-33(8)27-16-25-32(7)23-1
InchiKey:	DOVPAFXEHSNDHT-UHFFFAOYSA-N
Formula:	C33H68
SMILES:	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	464.89

Physical Properties

Property code	Value	Unit	Source
gf	212.34	kJ/mol	Joback Method
hf	-756.13	kJ/mol	Joback Method
hfus	60.09	kJ/mol	Joback Method
hvap	86.72	kJ/mol	Joback Method
log10ws	-12.19		Crippen Method
logp	12.255		Crippen Method
mcvol	475.830	ml/mol	McGowan Method
pc	531.40	kPa	Joback Method
rinpol	2885.00		NIST Webbook
rinpol	2870.00		NIST Webbook
rinpol	2885.00		NIST Webbook
tb	951.80	K	Joback Method
tc	1176.37	K	Joback Method
tf	371.67	K	Joback Method
vc	1.847	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1688.37	J/molxK	951.80	Joback Method
cpg	1717.13	J/molxK	989.23	Joback Method
cpg	1744.02	J/molxK	1026.66	Joback Method
cpg	1769.17	J/molxK	1064.09	Joback Method
cpg	1792.67	J/molxK	1101.52	Joback Method
cpg	1814.67	J/molxK	1138.94	Joback Method
cpg	1835.27	J/molxK	1176.37	Joback Method

dvisc	0.0034650	Paxs	371.67	Joback Method
dvisc	0.0004576	Paxs	468.36	Joback Method
dvisc	0.0001208	Paxs	565.05	Joback Method
dvisc	0.0000471	Paxs	661.73	Joback Method
dvisc	0.0000233	Paxs	758.42	Joback Method
dvisc	0.0000136	Paxs	855.11	Joback Method
dvisc	0.0000088	Paxs	951.80	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R215406&Units=SI

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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