

8,14,24,27-tetramethylhentriacontane

Inchi:	InChI=1S/C35H72/c1-7-9-11-15-19-25-32(3)27-22-18-23-28-33(4)26-20-16-13-12-14-17-
InchiKey:	VRQZMQHRXNCZJS-UHFFFAOYSA-N
Formula:	C35H72
SMILES:	CCCCCCCC(C)CCCC(C)CCCCCCCC(C)CCC(C)CCCC
Mol. weight [g/mol]:	492.95

Physical Properties

Property code	Value	Unit	Source
gf	234.06	kJ/mol	Joback Method
hf	-786.85	kJ/mol	Joback Method
hfus	72.31	kJ/mol	Joback Method
hvap	91.95	kJ/mol	Joback Method
log10ws	-13.51		Crippen Method
logp	13.323		Crippen Method
mcvol	504.010	ml/mol	McGowan Method
pc	483.88	kPa	Joback Method
rinpol	3249.00		NIST Webbook
tb	998.44	K	Joback Method
tc	1252.51	K	Joback Method
tf	424.21	K	Joback Method
vc	1.972	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.95	J/molxK	998.44	Joback Method
cpg	1963.91	J/molxK	1210.17	Joback Method
cpg	1940.13	J/molxK	1167.82	Joback Method
cpg	1914.63	J/molxK	1125.48	Joback Method
cpg	1887.22	J/molxK	1083.13	Joback Method
cpg	1857.72	J/molxK	1040.79	Joback Method
cpg	1986.16	J/molxK	1252.51	Joback Method
dvisc	0.0000077	Paxs	998.44	Joback Method
dvisc	0.0000114	Paxs	902.74	Joback Method

dvisc	0.0000187	Paxs	807.03	Joback Method
dvisc	0.0000350	Paxs	711.33	Joback Method
dvisc	0.0000795	Paxs	615.62	Joback Method
dvisc	0.0002446	Paxs	519.92	Joback Method
dvisc	0.0012491	Paxs	424.21	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=R263277&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
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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