

3,9,15-trimethylhentriacontane

Inchi:	InChI=1S/C34H70/c1-6-8-9-10-11-12-13-14-15-16-17-18-19-22-28-33(4)30-25-21-26-31
InchiKey:	XSXLFNZIKXWYPH-UHFFFAOYSA-N
Formula:	C34H70
SMILES:	CCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CC
Mol. weight [g/mol]:	478.92

Physical Properties

Property code	Value	Unit	Source
gf	228.08	kJ/mol	Joback Method
hf	-760.93	kJ/mol	Joback Method
hfus	73.25	kJ/mol	Joback Method
hvap	90.11	kJ/mol	Joback Method
log10ws	-13.33		Crippen Method
logp	13.077		Crippen Method
mvol	489.920	ml/mol	McGowan Method
pc	503.18	kPa	Joback Method
rinpol	3231.00		NIST Webbook
rinpol	3231.00		NIST Webbook
tb	976.00	K	Joback Method
tc	1219.59	K	Joback Method
tf	427.94	K	Joback Method
vc	1.921	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1756.49	J/molxK	976.00	Joback Method
cpg	1787.41	J/molxK	1016.60	Joback Method
cpg	1816.22	J/molxK	1057.20	Joback Method
cpg	1843.08	J/molxK	1097.80	Joback Method
cpg	1868.13	J/molxK	1138.39	Joback Method
cpg	1891.56	J/molxK	1178.99	Joback Method
cpg	1913.50	J/molxK	1219.59	Joback Method
dvisc	0.0011513	Paxs	427.94	Joback Method

dvisc	0.0002594	Paxs	519.28	Joback Method
dvisc	0.0000913	Paxs	610.63	Joback Method
dvisc	0.0000422	Paxs	701.97	Joback Method
dvisc	0.0000233	Paxs	793.31	Joback Method
dvisc	0.0000145	Paxs	884.66	Joback Method
dvisc	0.0000099	Paxs	976.00	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R262001&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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