

# Hentriacontane, 5,9,13-trimethyl

<b>Inchi:</b>	InChI=1S/C34H70/c1-6-8-10-11-12-13-14-15-16-17-18-19-20-21-22-23-27-33(4)29-25-3
<b>InchiKey:</b>	IKAWBEYBHMSWCC-UHFFFAOYSA-N
<b>Formula:</b>	C34H70
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC
<b>Mol. weight [g/mol]:</b>	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
mcvol	489.920	ml/mol	McGowan Method
pc	503.18	kPa	Joback Method
rinsol	3200.00		NIST Webbook
tb	976.00	K	Joback Method
tc	1219.59	K	Joback Method
tf	427.94	K	Joback Method
vc	1.921	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1756.49	J/molxK	976.00	Joback Method
cpg	1891.56	J/molxK	1178.99	Joback Method
cpg	1868.13	J/molxK	1138.39	Joback Method
cpg	1843.08	J/molxK	1097.80	Joback Method
cpg	1816.22	J/molxK	1057.20	Joback Method
cpg	1787.41	J/molxK	1016.60	Joback Method
cpg	1913.50	J/molxK	1219.59	Joback Method
dvisc	0.0000099	Paxs	976.00	Joback Method
dvisc	0.0000145	Paxs	884.66	Joback Method

dvisc	0.0000233	Paxs	793.31	Joback Method
dvisc	0.0000422	Paxs	701.97	Joback Method
dvisc	0.0000913	Paxs	610.63	Joback Method
dvisc	0.0002594	Paxs	519.28	Joback Method
dvisc	0.0011513	Paxs	427.94	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R195169&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R195169&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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