

# 5,8,14,24,27-pentamethylhentriacontane

<b>Inchi:</b>	InChI=1S/C36H74/c1-8-10-22-33(4)28-30-35(6)26-19-16-14-12-13-15-18-24-32(3)25-20
<b>InchiKey:</b>	GJOAGTYJAZJKRW-UHFFFAOYSA-N
<b>Formula:</b>	C36H74
<b>SMILES:</b>	CCCC(C)CCC(C)CCCCCCCCC(C)CCCCC(C)CCC(C)CCCC
<b>Mol. weight [g/mol]:</b>	506.97

## Physical Properties

Property code	Value	Unit	Source
gf	240.04	kJ/mol	Joback Method
hf	-812.77	kJ/mol	Joback Method
hfus	71.38	kJ/mol	Joback Method
hvap	93.79	kJ/mol	Joback Method
log10ws	-13.68		Crippen Method
logp	13.569		Crippen Method
mcvol	518.100	ml/mol	McGowan Method
pc	465.68	kPa	Joback Method
tb	1020.88	K	Joback Method
tc	1286.13	K	Joback Method
tf	420.48	K	Joback Method
vc	2.022	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1895.62	J/molxK	1020.88	Joback Method
cpg	1928.25	J/molxK	1065.09	Joback Method
cpg	1958.43	J/molxK	1109.30	Joback Method
cpg	1986.39	J/molxK	1153.50	Joback Method
cpg	2012.33	J/molxK	1197.71	Joback Method
cpg	2036.47	J/molxK	1241.92	Joback Method
cpg	2059.02	J/molxK	1286.13	Joback Method
dvisc	0.0013633	Paxs	420.48	Joback Method
dvisc	0.0002303	Paxs	520.55	Joback Method
dvisc	0.0000691	Paxs	620.61	Joback Method

dvisc	0.0000289	Paxs	720.68	Joback Method
dvisc	0.0000150	Paxs	820.75	Joback Method
dvisc	0.0000090	Paxs	920.81	Joback Method
dvisc	0.0000059	Paxs	1020.88	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=R263262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R263262&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>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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