

# 3-Methylhentriacontane

<b>Other names:</b>	Hentriacontane, 3-methyl
<b>Inchi:</b>	InChI=1S/C32H66/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-2
<b>InchiKey:</b>	FYHMQCYBOCSFQS-UHFFFAOYSA-N
<b>Formula:</b>	C32H66
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CC
<b>Mol. weight [g/mol]:</b>	450.87
<b>CAS:</b>	4981-99-1

## Physical Properties

Property code	Value	Unit	Source
gf	216.12	kJ/mol	Joback Method
hf	-709.09	kJ/mol	Joback Method
hfus	75.11	kJ/mol	Joback Method
hvap	86.44	kJ/mol	Joback Method
log10ws	-12.98		Crippen Method
logp	12.585		Crippen Method
mcvol	461.740	ml/mol	McGowan Method
pc	545.39	kPa	Joback Method
rinpol	3173.00		NIST Webbook
rinpol	3168.00		NIST Webbook
rinpol	3167.00		NIST Webbook
rinpol	3172.00		NIST Webbook
rinpol	3174.00		NIST Webbook
rinpol	3175.00		NIST Webbook
rinpol	3172.00		NIST Webbook
rinpol	3173.00		NIST Webbook
rinpol	3174.00		NIST Webbook
rinpol	3169.70		NIST Webbook
rinpol	3165.00		NIST Webbook
rinpol	3165.00		NIST Webbook
rinpol	3174.00		NIST Webbook
rinpol	3175.00		NIST Webbook
rinpol	3169.70		NIST Webbook
rinpol	3172.00		NIST Webbook
rinpol	3172.00		NIST Webbook
rinpol	3172.00		NIST Webbook
tb	931.12	K	Joback Method

tc	1155.67	K	Joback Method
tf	435.40	K	Joback Method
vc	1.821	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1618.39	J/mol×K	931.12	Joback Method
cpg	1747.56	J/mol×K	1118.25	Joback Method
cpg	1724.89	J/mol×K	1080.82	Joback Method
cpg	1700.75	J/mol×K	1043.40	Joback Method
cpg	1675.03	J/mol×K	1005.97	Joback Method
cpg	1647.62	J/mol×K	968.55	Joback Method
cpg	1768.88	J/mol×K	1155.67	Joback Method
dvisc	0.0000163	Paxs	931.12	Joback Method
dvisc	0.0000232	Paxs	848.50	Joback Method
dvisc	0.0000356	Paxs	765.88	Joback Method
dvisc	0.0000605	Paxs	683.26	Joback Method
dvisc	0.0001190	Paxs	600.64	Joback Method
dvisc	0.0002905	Paxs	518.02	Joback Method
dvisc	0.0009952	Paxs	435.40	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=C4981991&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4981991&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>
<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>hvac:</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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