

# 3,7,11,15-tetramethyl-hentriacontane

**Inchi:** InChI=1S/C35H72/c1-7-9-10-11-12-13-14-15-16-17-18-19-20-21-25-33(4)28-23-29-35(6)  
**InchiKey:** CXJXEXGRXNLYLF-UHFFFAOYSA-N  
**Formula:** C35H72  
**SMILES:** CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CC  
**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	3260.00		NIST Webbook
rinpol	3261.00		NIST Webbook
rinpol	3261.00		NIST Webbook
rinpol	3257.00		NIST Webbook
rinpol	3257.00		NIST Webbook
rinpol	3260.00		NIST Webbook
rinpol	3261.00		NIST Webbook
rinpol	3260.00		NIST Webbook
tb	998.44	K	Joback Method
tc	1252.51	K	Joback Method
tf	424.21	K	Joback Method
vc	1.972	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.95	J/molxK	998.44	Joback Method
cpg	1857.72	J/molxK	1040.79	Joback Method

cpg	1887.22	J/molxK	1083.13	Joback Method
cpg	1914.63	J/molxK	1125.48	Joback Method
cpg	1940.13	J/molxK	1167.82	Joback Method
cpg	1963.91	J/molxK	1210.17	Joback Method
cpg	1986.16	J/molxK	1252.51	Joback Method
dvisc	0.0012491	Paxs	424.21	Joback Method
dvisc	0.0002446	Paxs	519.92	Joback Method
dvisc	0.0000795	Paxs	615.62	Joback Method
dvisc	0.0000350	Paxs	711.33	Joback Method
dvisc	0.0000187	Paxs	807.03	Joback Method
dvisc	0.0000114	Paxs	902.74	Joback Method
dvisc	0.0000077	Paxs	998.44	Joback Method

## Sources

<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>
<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=R272305&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272305&amp;Units=SI</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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