

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

Inchi:	InChI=1S/C37H76/c1-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-27-35(4)30-25-3
InchiKey:	KLFUOQIKYGVIOC-UHFFFAOYSA-N
Formula:	C37H76
SMILES:	CCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CC
Mol. weight [g/mol]:	521.00

## Physical Properties

Property code	Value	Unit	Source
gf	250.90	kJ/mol	Joback Method
hf	-828.13	kJ/mol	Joback Method
hfus	77.49	kJ/mol	Joback Method
hvap	96.40	kJ/mol	Joback Method
log10ws	-14.34		Crippen Method
logp	14.103		Crippen Method
mcvol	532.190	ml/mol	McGowan Method
pc	445.46	kPa	Joback Method
rinpol	3460.00		NIST Webbook
rinpol	3459.00		NIST Webbook
rinpol	3460.00		NIST Webbook
rinpol	3459.00		NIST Webbook
rinpol	3459.00		NIST Webbook
rinpol	3460.00		NIST Webbook
tb	1044.20	K	Joback Method
tc	1329.98	K	Joback Method
tf	446.75	K	Joback Method
vc	2.083	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1965.23	J/molxK	1044.20	Joback Method
cpg	2114.11	J/molxK	1282.35	Joback Method
cpg	2088.70	J/molxK	1234.72	Joback Method
cpg	2061.38	J/molxK	1187.09	Joback Method

cpg	2031.88	J/molxK	1139.46	Joback Method
cpg	1999.92	J/molxK	1091.83	Joback Method
cpg	2137.90	J/molxK	1329.98	Joback Method
dvisc	0.0000055	Paxs	1044.20	Joback Method
dvisc	0.0000082	Paxs	944.62	Joback Method
dvisc	0.0000135	Paxs	845.05	Joback Method
dvisc	0.0000251	Paxs	745.47	Joback Method
dvisc	0.0000568	Paxs	645.90	Joback Method
dvisc	0.0001729	Paxs	546.32	Joback Method
dvisc	0.0008645	Paxs	446.75	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R272310&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272310&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>
<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>

## 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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