

# 3-Methyltetratriacontane

**Inchi:** InChI=1S/C35H72/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27  
**InchiKey:** OSSGIRCOJTVZEN-UHFFFAOYSA-N  
**Formula:** C35H72  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CC  
**Mol. weight [g/mol]:** 492.95

## Physical Properties

Property code	Value	Unit	Source
gf	241.38	kJ/mol	Joback Method
hf	-771.01	kJ/mol	Joback Method
hfus	82.88	kJ/mol	Joback Method
hvap	93.12	kJ/mol	Joback Method
log10ws	-14.23		Crippen Method
logp	13.755		Crippen Method
mcvol	504.010	ml/mol	McGowan Method
pc	478.81	kPa	Joback Method
rinpol	3475.00		NIST Webbook
rinpol	3475.00		NIST Webbook
rinpol	3478.00		NIST Webbook
tb	999.76	K	Joback Method
tc	1264.67	K	Joback Method
tf	469.21	K	Joback Method
vc	1.990	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.36	J/molxK	999.76	Joback Method
cpg	1858.65	J/molxK	1043.91	Joback Method
cpg	1889.54	J/molxK	1088.06	Joback Method
cpg	1918.23	J/molxK	1132.22	Joback Method
cpg	1944.94	J/molxK	1176.37	Joback Method
cpg	1969.88	J/molxK	1220.52	Joback Method
cpg	1993.26	J/molxK	1264.67	Joback Method

dvisc	0.0006270	Paxs	469.21	Joback Method
dvisc	0.0001830	Paxs	557.63	Joback Method
dvisc	0.0000748	Paxs	646.06	Joback Method
dvisc	0.0000379	Paxs	734.48	Joback Method
dvisc	0.0000223	Paxs	822.91	Joback Method
dvisc	0.0000145	Paxs	911.34	Joback Method
dvisc	0.0000102	Paxs	999.76	Joback Method

## Sources

<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=R390493&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R390493&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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