

# 12-Methyltetratriacontane

**Inchi:** InChI=1S/C35H72/c1-4-6-8-10-12-14-15-16-17-18-19-20-21-22-23-24-26-28-30-32-34-35  
**InchiKey:** FGVIAWLRZDGRM-UHFFFAOYSA-N  
**Formula:** C35H72  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCC  
**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	3430.00		NIST Webbook
rinpol	3432.00		NIST Webbook
rinpol	3435.00		NIST Webbook
rinpol	3426.00		NIST Webbook
rinpol	3426.00		NIST Webbook
rinpol	3435.00		NIST Webbook
rinpol	3430.00		NIST Webbook
tb	999.76	K	Joback Method
tc	1264.67	K	Joback Method
tf	469.21	K	Joback Method
vc	1.990	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.36	J/mol×K	999.76	Joback Method
cpg	1969.88	J/mol×K	1220.52	Joback Method
cpg	1944.94	J/mol×K	1176.37	Joback Method

cpg	1918.23	J/molxK	1132.22	Joback Method
cpg	1889.54	J/molxK	1088.06	Joback Method
cpg	1858.65	J/molxK	1043.91	Joback Method
cpg	1993.26	J/molxK	1264.67	Joback Method
dvisc	0.0000102	Paxs	999.76	Joback Method
dvisc	0.0000145	Paxs	911.34	Joback Method
dvisc	0.0000223	Paxs	822.91	Joback Method
dvisc	0.0000379	Paxs	734.48	Joback Method
dvisc	0.0000748	Paxs	646.06	Joback Method
dvisc	0.0001830	Paxs	557.63	Joback Method
dvisc	0.0006270	Paxs	469.21	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=R272003&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272003&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>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

Latest version available from:

<https://www.chemeo.com/cid/20-768-7/12-Methyltetratriacontane.pdf>

Generated by Cheméo on 2024-04-26 03:34:02.562659948 +0000 UTC m=+16391691.483237261.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.