

# 4,12,16-Trimethyldotriacontane

**Inchi:** InChI=1S/C35H72/c1-6-8-9-10-11-12-13-14-15-16-17-18-20-24-29-34(4)31-26-32-35(5)3  
**InchiKey:** KBJFIWUESFLSAY-UHFFFAOYSA-N  
**Formula:** C35H72  
**SMILES:** CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCC(C)CCC  
**Mol. weight [g/mol]:** 492.95

## Physical Properties

Property code	Value	Unit	Source
gf	236.50	kJ/mol	Joback Method
hf	-781.57	kJ/mol	Joback Method
hfus	75.84	kJ/mol	Joback Method
hvap	92.34	kJ/mol	Joback Method
log10ws	-13.75		Crippen Method
logp	13.467		Crippen Method
mcvol	504.010	ml/mol	McGowan Method
pc	482.19	kPa	Joback Method
rinpol	3316.00		NIST Webbook
rinpol	3316.00		NIST Webbook
rinpol	3316.00		NIST Webbook
tb	998.88	K	Joback Method
tc	1256.37	K	Joback Method
tf	439.21	K	Joback Method
vc	1.978	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.75	J/molxK	998.88	Joback Method
cpg	1858.01	J/molxK	1041.80	Joback Method
cpg	1887.94	J/molxK	1084.71	Joback Method
cpg	1915.76	J/molxK	1127.63	Joback Method
cpg	1941.65	J/molxK	1170.54	Joback Method
cpg	1965.80	J/molxK	1213.46	Joback Method
cpg	1988.40	J/molxK	1256.37	Joback Method

dvisc	0.0009683	Paxs	439.21	Joback Method
dvisc	0.0002197	Paxs	532.49	Joback Method
dvisc	0.0000775	Paxs	625.77	Joback Method
dvisc	0.0000359	Paxs	719.05	Joback Method
dvisc	0.0000198	Paxs	812.32	Joback Method
dvisc	0.0000124	Paxs	905.60	Joback Method
dvisc	0.0000084	Paxs	998.88	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R505412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R505412&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>mvol:</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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