

# 3,7-dimethyl-tritriacontane

**Inchi:** InChI=1S/C35H72/c1-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-31-32-33-34-35  
**InchiKey:** DIDIUHOFVAPJGZ-UHFFFAOYSA-N  
**Formula:** C35H72  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CC  
**Mol. weight [g/mol]:** 492.95

## Physical Properties

Property code	Value	Unit	Source
gf	238.94	kJ/mol	Joback Method
hf	-776.29	kJ/mol	Joback Method
hfus	79.36	kJ/mol	Joback Method
hvap	92.73	kJ/mol	Joback Method
log10ws	-13.99		Crippen Method
logp	13.611		Crippen Method
mcvol	504.010	ml/mol	McGowan Method
pc	480.50	kPa	Joback Method
rinpol	3406.00		NIST Webbook
tb	999.32	K	Joback Method
tc	1260.43	K	Joback Method
tf	454.21	K	Joback Method
vc	1.984	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1825.56	J/molxK	999.32	Joback Method
cpg	1967.79	J/molxK	1216.91	Joback Method
cpg	1943.25	J/molxK	1173.39	Joback Method
cpg	1916.96	J/molxK	1129.87	Joback Method
cpg	1888.72	J/molxK	1086.36	Joback Method
cpg	1858.31	J/molxK	1042.84	Joback Method
cpg	1990.77	J/molxK	1260.43	Joback Method
dvisc	0.0000093	Paxs	999.32	Joback Method
dvisc	0.0000134	Paxs	908.47	Joback Method

dvisc	0.0000210	Paxs	817.62	Joback Method
dvisc	0.0000368	Paxs	726.76	Joback Method
dvisc	0.0000760	Paxs	635.91	Joback Method
dvisc	0.0001994	Paxs	545.06	Joback Method
dvisc	0.0007702	Paxs	454.21	Joback Method

## Sources

<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=R272414&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272414&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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