

# 4,8,16-trimethyltetratriacontane

<b>Inchi:</b>	InChI=1S/C37H76/c1-6-8-9-10-11-12-13-14-15-16-17-18-19-20-22-25-30-36(4)31-26-23
<b>InchiKey:</b>	DYIKXRQRJAKMQM-UHFFFAOYSA-N
<b>Formula:</b>	C37H76
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCC(C)CCCCCCC(C)CCCC(C)CCC
<b>Mol. weight [g/mol]:</b>	521.00

## Physical Properties

Property code	Value	Unit	Source
gf	253.34	kJ/mol	Joback Method
hf	-822.85	kJ/mol	Joback Method
hfus	81.02	kJ/mol	Joback Method
hvap	96.79	kJ/mol	Joback Method
log10ws	-14.59		Crippen Method
logp	14.247		Crippen Method
mcvol	532.190	ml/mol	McGowan Method
pc	443.96	kPa	Joback Method
rinpol	3520.00		NIST Webbook
rinpol	3520.00		NIST Webbook
rinpol	3520.00		NIST Webbook
tb	1044.64	K	Joback Method
tc	1335.05	K	Joback Method
tf	461.75	K	Joback Method
vc	2.090	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1965.12	J/molxK	1044.64	Joback Method
cpg	2000.46	J/molxK	1093.04	Joback Method
cpg	2032.99	J/molxK	1141.44	Joback Method
cpg	2063.03	J/molxK	1189.85	Joback Method
cpg	2090.85	J/molxK	1238.25	Joback Method
cpg	2116.75	J/molxK	1286.65	Joback Method
cpg	2141.02	J/molxK	1335.05	Joback Method

dvisc	0.0006836	Paxs	461.75	Joback Method
dvisc	0.0001570	Paxs	558.90	Joback Method
dvisc	0.0000558	Paxs	656.05	Joback Method
dvisc	0.0000259	Paxs	753.19	Joback Method
dvisc	0.0000143	Paxs	850.34	Joback Method
dvisc	0.0000089	Paxs	947.49	Joback Method
dvisc	0.0000061	Paxs	1044.64	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R272503&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272503&amp;Units=SI</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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