

# 4,8,16-trimethyl-hexatriacontane

Inchi:	InChI=1S/C39H80/c1-6-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24-27-32-38(4)33
InchiKey:	GTXOPNHRSDVBS-UHFFFAOYSA-N
Formula:	C39H80
SMILES:	CCCCCCCCCCCCCCCCCCCC(C)CCCCCCC(C)CCCC(C)CCC
Mol. weight [g/mol]:	549.05

## Physical Properties

Property code	Value	Unit	Source
gf	270.18	kJ/mol	Joback Method
hf	-864.13	kJ/mol	Joback Method
hfus	86.20	kJ/mol	Joback Method
hvap	101.24	kJ/mol	Joback Method
log10ws	-15.42		Crippen Method
logp	15.028		Crippen Method
mcvol	560.370	ml/mol	McGowan Method
pc	410.11	kPa	Joback Method
rinpol	3720.00		NIST Webbook
rinpol	3720.00		NIST Webbook
rinpol	3715.00		NIST Webbook
rinpol	3720.00		NIST Webbook
rinpol	3715.00		NIST Webbook
rinpol	3715.00		NIST Webbook
tb	1090.40	K	Joback Method
tc	1421.58	K	Joback Method
tf	484.29	K	Joback Method
vc	2.201	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2105.46	J/molxK	1090.40	Joback Method
cpg	2271.37	J/molxK	1366.39	Joback Method
cpg	2243.14	J/molxK	1311.19	Joback Method
cpg	2212.89	J/molxK	1255.99	Joback Method

cpg	2180.17	J/molxK	1200.79	Joback Method
cpg	2144.50	J/molxK	1145.60	Joback Method
cpg	2298.04	J/molxK	1421.58	Joback Method
dvisc	0.0000044	Paxs	1090.40	Joback Method
dvisc	0.0000064	Paxs	989.38	Joback Method
dvisc	0.0000103	Paxs	888.36	Joback Method
dvisc	0.0000186	Paxs	787.35	Joback Method
dvisc	0.0000399	Paxs	686.33	Joback Method
dvisc	0.0001118	Paxs	585.31	Joback Method
dvisc	0.0004814	Paxs	484.29	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=R272494&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272494&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>

## 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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