

# 18-Methylhexatriacontane

**Inchi:** InChI=1S/C37H76/c1-4-6-8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-37(3)35-33-31-  
**InchiKey:** RVCZFJZFMWEAMU-UHFFFAOYSA-N  
**Formula:** C37H76  
**SMILES:** CCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 521.00

## Physical Properties

Property code	Value	Unit	Source
gf	258.22	kJ/mol	Joback Method
hf	-812.29	kJ/mol	Joback Method
hfus	88.06	kJ/mol	Joback Method
hvap	97.57	kJ/mol	Joback Method
log10ws	-15.07		Crippen Method
logp	14.536		Crippen Method
mcvol	532.190	ml/mol	McGowan Method
pc	440.98	kPa	Joback Method
rinpol	3631.00		NIST Webbook
tb	1045.52	K	Joback Method
tc	1345.85	K	Joback Method
tf	491.75	K	Joback Method
vc	2.102	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1964.92	J/molxK	1045.52	Joback Method
cpg	2001.61	J/molxK	1095.58	Joback Method
cpg	2035.39	J/molxK	1145.63	Joback Method
cpg	2066.56	J/molxK	1195.69	Joback Method
cpg	2095.46	J/molxK	1245.74	Joback Method
cpg	2122.39	J/molxK	1295.80	Joback Method
cpg	2147.70	J/molxK	1345.85	Joback Method
dvisc	0.0004573	Paxs	491.75	Joback Method
dvisc	0.0001335	Paxs	584.04	Joback Method

dvisc	0.0000545	Paxs	676.34	Joback Method
dvisc	0.0000276	Paxs	768.63	Joback Method
dvisc	0.0000162	Paxs	860.93	Joback Method
dvisc	0.0000105	Paxs	953.22	Joback Method
dvisc	0.0000074	Paxs	1045.52	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=R337665&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R337665&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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