

# 3-Methylpentatriacontane

<b>Inchi:</b>	InChI=1S/C36H74/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-2
<b>InchiKey:</b>	LOULRXYFWHQOPD-UHFFFAOYSA-N
<b>Formula:</b>	C36H74
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CC
<b>Mol. weight [g/mol]:</b>	506.97
<b>CAS:</b>	78692-70-3

## Physical Properties

Property code	Value	Unit	Source
gf	249.80	kJ/mol	Joback Method
hf	-791.65	kJ/mol	Joback Method
hfus	85.47	kJ/mol	Joback Method
hvap	95.34	kJ/mol	Joback Method
log10ws	-14.65		Crippen Method
logp	14.146		Crippen Method
mvol	518.100	ml/mol	McGowan Method
pc	459.31	kPa	Joback Method
rinpol	3574.00		NIST Webbook
rinpol	3575.80		NIST Webbook
tb	1022.64	K	Joback Method
tc	1304.31	K	Joback Method
tf	480.48	K	Joback Method
vc	2.046	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1895.00	J/mol×K	1022.64	Joback Method
cpg	1929.92	J/mol×K	1069.59	Joback Method
cpg	1962.18	J/mol×K	1116.53	Joback Method
cpg	1992.06	J/mol×K	1163.48	Joback Method
cpg	2019.81	J/mol×K	1210.42	Joback Method
cpg	2045.68	J/mol×K	1257.37	Joback Method
cpg	2069.95	J/mol×K	1304.31	Joback Method

dvisc	0.0005358	Paxs	480.48	Joback Method
dvisc	0.0001564	Paxs	570.84	Joback Method
dvisc	0.0000639	Paxs	661.20	Joback Method
dvisc	0.0000324	Paxs	751.56	Joback Method
dvisc	0.0000190	Paxs	841.92	Joback Method
dvisc	0.0000123	Paxs	932.28	Joback Method
dvisc	0.0000087	Paxs	1022.64	Joback Method

## Sources

<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=C78692703&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C78692703&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>

## 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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