

# Heptatriacontane, 3-methyl

<b>Inchi:</b>	InChI=1S/C38H78/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>	MITOUKZHSFQUQJ-UHFFFAOYSA-N
<b>Formula:</b>	C38H78
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CC
<b>Mol. weight [g/mol]:</b>	535.03

## Physical Properties

Property code	Value	Unit	Source
gf	266.64	kJ/mol	Joback Method
hf	-832.93	kJ/mol	Joback Method
hfus	90.65	kJ/mol	Joback Method
hvap	99.79	kJ/mol	Joback Method
log10ws	-15.49		Crippen Method
logp	14.926		Crippen Method
mvol	546.280	ml/mol	McGowan Method
pc	423.73	kPa	Joback Method
rinpol	3774.00		NIST Webbook
tb	1068.40	K	Joback Method
tc	1389.46	K	Joback Method
tf	503.02	K	Joback Method
vc	2.158	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2035.08	J/molxK	1068.40	Joback Method
cpg	2200.09	J/molxK	1335.95	Joback Method
cpg	2171.93	J/molxK	1282.44	Joback Method
cpg	2141.75	J/molxK	1228.93	Joback Method
cpg	2109.16	J/molxK	1175.42	Joback Method
cpg	2073.73	J/molxK	1121.91	Joback Method
cpg	2226.65	J/molxK	1389.46	Joback Method
dvisc	0.0000063	Paxs	1068.40	Joback Method
dvisc	0.0000089	Paxs	974.17	Joback Method

dvisc	0.0000138	Paxs	879.94	Joback Method
dvisc	0.0000235	Paxs	785.71	Joback Method
dvisc	0.0000464	Paxs	691.48	Joback Method
dvisc	0.0001137	Paxs	597.25	Joback Method
dvisc	0.0003897	Paxs	503.02	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=R283657&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R283657&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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