

# Triacontane, 2,6,10,14,19,23,27-heptamethyl

<b>Inchi:</b>	InChI=1S/C37H76/c1-10-18-32(4)23-14-26-36(8)28-15-24-33(5)20-11-12-21-34(6)25-16
<b>InchiKey:</b>	IALQMCFUWUEGAR-UHFFFAOYSA-N
<b>Formula:</b>	C37H76
<b>SMILES:</b>	CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	521.00

## Physical Properties

Property code	Value	Unit	Source
gf	243.58	kJ/mol	Joback Method
hf	-843.97	kJ/mol	Joback Method
hfus	66.92	kJ/mol	Joback Method
hvap	95.24	kJ/mol	Joback Method
log10ws	-13.62		Crippen Method
logp	13.671		Crippen Method
mvol	532.190	ml/mol	McGowan Method
pc	450.01	kPa	Joback Method
rinpol	3211.00		NIST Webbook
rinpol	3211.00		NIST Webbook
tb	1042.88	K	Joback Method
tc	1316.04	K	Joback Method
tf	401.75	K	Joback Method
vc	2.066	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1965.56	J/molxK	1042.88	Joback Method
cpg	2106.90	J/molxK	1270.51	Joback Method
cpg	2082.82	J/molxK	1224.99	Joback Method
cpg	2056.89	J/molxK	1179.46	Joback Method
cpg	2028.86	J/molxK	1133.93	Joback Method
cpg	1998.50	J/molxK	1088.41	Joback Method
cpg	2129.37	J/molxK	1316.04	Joback Method
dvisc	0.0000041	Paxs	1042.88	Joback Method

dvisc	0.0000065	Paxs	936.02	Joback Method
dvisc	0.0000113	Paxs	829.17	Joback Method
dvisc	0.0000233	Paxs	722.31	Joback Method
dvisc	0.0000618	Paxs	615.46	Joback Method
dvisc	0.0002469	Paxs	508.60	Joback Method
dvisc	0.0020628	Paxs	401.75	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=R214136&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R214136&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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