

# 11,15-Dimethylpentatriacontane

<b>Other names:</b>	Pentatriacontane, 11,15-dimethyl
<b>Inchi:</b>	InChI=1S/C37H76/c1-5-7-9-11-13-15-16-17-18-19-20-21-22-23-24-26-28-30-33-37(4)35-
<b>InchiKey:</b>	PFWHBIJHNFAHQI-UHFFFAOYSA-N
<b>Formula:</b>	C37H76
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCCC
<b>Mol. weight [g/mol]:</b>	521.00
<b>CAS:</b>	56987-84-9

## Physical Properties

Property code	Value	Unit	Source
gf	255.78	kJ/mol	Joback Method
hf	-817.57	kJ/mol	Joback Method
hfus	84.54	kJ/mol	Joback Method
hvap	97.18	kJ/mol	Joback Method
log10ws	-14.83		Crippen Method
logp	14.391		Crippen Method
mcvol	532.190	ml/mol	McGowan Method
pc	442.47	kPa	Joback Method
rinpol	3555.00		NIST Webbook
rinpol	3556.00		NIST Webbook
rinpol	3556.00		NIST Webbook
rinpol	3559.00		NIST Webbook
rinpol	3556.00		NIST Webbook
rinpol	3542.00		NIST Webbook
rinpol	3555.00		NIST Webbook
rinpol	3560.00		NIST Webbook
rinpol	3555.00		NIST Webbook
rinpol	3542.00		NIST Webbook
tb	1045.08	K	Joback Method
tc	1340.34	K	Joback Method
tf	476.75	K	Joback Method
vc	2.095	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1965.02	J/molxK	1045.08	Joback Method
cpg	2001.02	J/molxK	1094.29	Joback Method
cpg	2034.16	J/molxK	1143.50	Joback Method
cpg	2064.75	J/molxK	1192.71	Joback Method
cpg	2093.10	J/molxK	1241.92	Joback Method
cpg	2119.51	J/molxK	1291.13	Joback Method
cpg	2144.28	J/molxK	1340.34	Joback Method
dvisc	0.0005532	Paxs	476.75	Joback Method
dvisc	0.0001441	Paxs	571.47	Joback Method
dvisc	0.0000550	Paxs	666.19	Joback Method
dvisc	0.0000267	Paxs	760.91	Joback Method
dvisc	0.0000152	Paxs	855.64	Joback Method
dvisc	0.0000097	Paxs	950.36	Joback Method
dvisc	0.0000067	Paxs	1045.08	Joback Method

## Sources

<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=C56987849&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56987849&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>

## 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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