

# 8,20-dimethyl-dotriacontane

<b>Inchi:</b>	InChI=1S/C34H70/c1-5-7-9-11-12-13-15-18-22-27-31-34(4)32-28-24-20-17-14-16-19-23
<b>InchiKey:</b>	KBULPUFWCXJNAK-UHFFFAOYSA-N
<b>Formula:</b>	C34H70
<b>SMILES:</b>	CCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCCCCCC
<b>Mol. weight [g/mol]:</b>	478.92

## Physical Properties

Property code	Value	Unit	Source
gf	230.52	kJ/mol	Joback Method
hf	-755.65	kJ/mol	Joback Method
hfus	76.77	kJ/mol	Joback Method
hvap	90.50	kJ/mol	Joback Method
log10ws	-13.57		Crippen Method
logp	13.221		Crippen Method
mvol	489.920	ml/mol	McGowan Method
pc	501.37	kPa	Joback Method
rinpol	3265.00		NIST Webbook
rinpol	3265.00		NIST Webbook
tb	976.44	K	Joback Method
tc	1223.09	K	Joback Method
tf	442.94	K	Joback Method
vc	1.927	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1756.26	J/molxK	976.44	Joback Method
cpg	1787.61	J/molxK	1017.55	Joback Method
cpg	1816.81	J/molxK	1058.66	Joback Method
cpg	1844.04	J/molxK	1099.77	Joback Method
cpg	1869.45	J/molxK	1140.87	Joback Method
cpg	1893.20	J/molxK	1181.98	Joback Method
cpg	1915.47	J/molxK	1223.09	Joback Method
dvisc	0.0009072	Paxs	442.94	Joback Method

dvisc	0.0002342	Paxs	531.86	Joback Method
dvisc	0.0000891	Paxs	620.77	Joback Method
dvisc	0.0000432	Paxs	709.69	Joback Method
dvisc	0.0000246	Paxs	798.61	Joback Method
dvisc	0.0000157	Paxs	887.52	Joback Method
dvisc	0.0000109	Paxs	976.44	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=R272756&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R272756&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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