

# 13,25-Dimethylnonatriacontane

<b>Inchi:</b>	InChI=1S/C41H84/c1-5-7-9-11-13-15-17-18-21-25-29-33-37-41(4)39-35-31-27-23-19-22
<b>InchiKey:</b>	DGPCFRWCOSNGDW-UHFFFAOYSA-N
<b>Formula:</b>	C41H84
<b>SMILES:</b>	CCCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	577.11

## Physical Properties

Property code	Value	Unit	Source
gf	289.46	kJ/mol	Joback Method
hf	-900.13	kJ/mol	Joback Method
hfus	94.90	kJ/mol	Joback Method
hvap	106.08	kJ/mol	Joback Method
log10ws	-16.50		Crippen Method
logp	15.952		Crippen Method
mcvol	588.550	ml/mol	McGowan Method
pc	378.80	kPa	Joback Method
rinsol	3963.00		NIST Webbook
tb	1136.60	K	Joback Method
tc	1525.89	K	Joback Method
tf	521.83	K	Joback Method
vc	2.320	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2246.73	J/molxK	1136.60	Joback Method
cpg	2291.33	J/molxK	1201.48	Joback Method
cpg	2331.73	J/molxK	1266.36	Joback Method
cpg	2368.72	J/molxK	1331.25	Joback Method
cpg	2403.06	J/molxK	1396.13	Joback Method
cpg	2435.56	J/molxK	1461.01	Joback Method
cpg	2466.97	J/molxK	1525.89	Joback Method
dvisc	0.0002822	Paxs	521.83	Joback Method
dvisc	0.0000742	Paxs	624.29	Joback Method

dvisc	0.0000284	Paxs	726.75	Joback Method
dvisc	0.0000138	Paxs	829.21	Joback Method
dvisc	0.0000079	Paxs	931.68	Joback Method
dvisc	0.0000050	Paxs	1034.14	Joback Method
dvisc	0.0000035	Paxs	1136.60	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R300173&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R300173&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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