

# Nonacosane, 8,12-dimethyl

<b>Inchi:</b>	InChI=1S/C31H64/c1-5-7-9-11-12-13-14-15-16-17-18-19-20-22-24-27-31(4)29-25-28-30
<b>InchiKey:</b>	FYQOTTSVWGTMP-P-UHFFFAOYSA-N
<b>Formula:</b>	C31H64
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(C)CCCC(C)CCCCC
<b>Mol. weight [g/mol]:</b>	436.84

## Physical Properties

Property code	Value	Unit	Source
gf	205.26	kJ/mol	Joback Method
hf	-693.73	kJ/mol	Joback Method
hfus	69.00	kJ/mol	Joback Method
hvap	83.82	kJ/mol	Joback Method
log10ws	-12.32		Crippen Method
logp	12.051		Crippen Method
mvol	447.650	ml/mol	McGowan Method
pc	572.88	kPa	Joback Method
rinpol	2966.00		NIST Webbook
rinpol	2966.00		NIST Webbook
tb	907.80	K	Joback Method
tc	1120.00	K	Joback Method
tf	409.13	K	Joback Method
vc	1.760	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1550.48	J/molxK	907.80	Joback Method
cpg	1674.29	J/molxK	1084.64	Joback Method
cpg	1652.45	J/molxK	1049.27	Joback Method
cpg	1629.24	J/molxK	1013.90	Joback Method
cpg	1604.57	J/molxK	978.53	Joback Method
cpg	1578.35	J/molxK	943.17	Joback Method
cpg	1694.85	J/molxK	1120.00	Joback Method
dvisc	0.0000174	Paxs	907.80	Joback Method

dvisc	0.0000251	Paxs	824.69	Joback Method
dvisc	0.0000394	Paxs	741.58	Joback Method
dvisc	0.0000691	Paxs	658.46	Joback Method
dvisc	0.0001427	Paxs	575.35	Joback Method
dvisc	0.0003763	Paxs	492.24	Joback Method
dvisc	0.0014719	Paxs	409.13	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=R528242&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R528242&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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