

# 6,14-dimethylnonadecane

<b>Inchi:</b>	InChI=1S/C21H44/c1-5-7-12-16-20(3)18-14-10-9-11-15-19-21(4)17-13-8-6-2/h20-21H,5-
<b>InchiKey:</b>	MQJUXQCUCLNPE-UHFFFAOYSA-N
<b>Formula:</b>	C21H44
<b>SMILES:</b>	CCCCC(C)CCCCCCCC(C)CCCC
<b>Mol. weight [g/mol]:</b>	296.57

## Physical Properties

Property code	Value	Unit	Source
gf	121.06	kJ/mol	Joback Method
hf	-487.33	kJ/mol	Joback Method
hfus	43.10	kJ/mol	Joback Method
hvap	61.56	kJ/mol	Joback Method
log10ws	-8.13		Crippen Method
logp	8.150		Crippen Method
mvol	306.750	ml/mol	McGowan Method
pc	965.67	kPa	Joback Method
rinpol	1994.00		NIST Webbook
rinpol	1994.00		NIST Webbook
tb	679.00	K	Joback Method
tc	843.74	K	Joback Method
tf	296.43	K	Joback Method
vc	1.200	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	901.43	J/molxK	679.00	Joback Method
cpg	1001.40	J/molxK	816.28	Joback Method
cpg	983.16	J/molxK	788.83	Joback Method
cpg	964.07	J/molxK	761.37	Joback Method
cpg	944.11	J/molxK	733.91	Joback Method
cpg	923.24	J/molxK	706.46	Joback Method
cpg	1018.82	J/molxK	843.74	Joback Method
dvisc	0.0000737	Paxs	679.00	Joback Method

dvisc	0.0001057	Paxs	615.24	Joback Method
dvisc	0.0001648	Paxs	551.48	Joback Method
dvisc	0.0002885	Paxs	487.71	Joback Method
dvisc	0.0005980	Paxs	423.95	Joback Method
dvisc	0.0016043	Paxs	360.19	Joback Method
dvisc	0.0065804	Paxs	296.43	Joback Method

## Sources

<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=R262165&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R262165&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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