

# 3-Ethyl-3-methylnonadecane

<b>Inchi:</b>	InChI=1S/C22H46/c1-5-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22(4,6-2)7-3/h5-21H2
<b>InchiKey:</b>	FGHGGVDAVODSPZ-UHFFFAOYSA-N
<b>Formula:</b>	C22H46
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(C)(CC)CC
<b>Mol. weight [g/mol]:</b>	310.60

## Physical Properties

Property code	Value	Unit	Source
gf	137.20	kJ/mol	Joback Method
hf	-506.16	kJ/mol	Joback Method
hfus	45.32	kJ/mol	Joback Method
hvap	63.27	kJ/mol	Joback Method
log10ws	-8.79		Crippen Method
logp	8.684		Crippen Method
mcvol	320.840	ml/mol	McGowan Method
pc	912.18	kPa	Joback Method
rinpol	2158.00		NIST Webbook
rinpol	2158.00		NIST Webbook
tb	699.53	K	Joback Method
tc	866.63	K	Joback Method
tf	340.12	K	Joback Method
vc	1.256	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	963.48	J/mol×K	699.53	Joback Method
cpg	985.57	J/mol×K	727.38	Joback Method
cpg	1006.67	J/mol×K	755.23	Joback Method
cpg	1026.82	J/mol×K	783.08	Joback Method
cpg	1046.05	J/mol×K	810.93	Joback Method
cpg	1064.42	J/mol×K	838.78	Joback Method
cpg	1081.96	J/mol×K	866.63	Joback Method
dvisc	0.0033295	Paxs	340.12	Joback Method

dvisc	0.0010494	Paxs	400.02	Joback Method
dvisc	0.0004468	Paxs	459.92	Joback Method
dvisc	0.0002316	Paxs	519.83	Joback Method
dvisc	0.0001375	Paxs	579.73	Joback Method
dvisc	0.0000900	Paxs	639.63	Joback Method
dvisc	0.0000634	Paxs	699.53	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=U360426&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360426&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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