

# 3,3,11,11-Tetraethyltridecane

<b>Inchi:</b>	InChI=1S/C21H44/c1-7-20(8-2,9-3)18-16-14-13-15-17-19-21(10-4,11-5)12-6/h7-19H2,1-6
<b>InchiKey:</b>	GVEHWITXYSVWBO-UHFFFAOYSA-N
<b>Formula:</b>	C21H44
<b>SMILES:</b>	CCC(CC)(CC)CCCCCCCC(CC)(CC)CC
<b>Mol. weight [g/mol]:</b>	296.57

## Physical Properties

Property code	Value	Unit	Source
gf	131.62	kJ/mol	Joback Method
hf	-494.27	kJ/mol	Joback Method
hfus	35.32	kJ/mol	Joback Method
hvap	59.75	kJ/mol	Joback Method
log10ws	-8.13		Crippen Method
logp	8.150		Crippen Method
mcvol	306.750	ml/mol	McGowan Method
pc	979.01	kPa	Joback Method
rinpol	1980.00		NIST Webbook
rinpol	1980.00		NIST Webbook
tb	673.42	K	Joback Method
tc	844.37	K	Joback Method
tf	331.27	K	Joback Method
vc	1.190	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	904.11	J/molxK	673.42	Joback Method
cpg	926.40	J/molxK	701.91	Joback Method
cpg	947.62	J/molxK	730.40	Joback Method
cpg	967.83	J/molxK	758.90	Joback Method
cpg	987.07	J/molxK	787.39	Joback Method
cpg	1005.41	J/molxK	815.88	Joback Method
cpg	1022.90	J/molxK	844.37	Joback Method
dvisc	0.0043469	Paxs	331.27	Joback Method

dvisc	0.0012737	Paxs	388.29	Joback Method
dvisc	0.0005111	Paxs	445.32	Joback Method
dvisc	0.0002523	Paxs	502.34	Joback Method
dvisc	0.0001439	Paxs	559.37	Joback Method
dvisc	0.0000910	Paxs	616.39	Joback Method
dvisc	0.0000622	Paxs	673.42	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=R415097&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R415097&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>

## 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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