

# 3,3-Diethyltridecane

<b>Inchi:</b>	InChI=1S/C17H36/c1-5-9-10-11-12-13-14-15-16-17(6-2,7-3)8-4/h5-16H2,1-4H3
<b>InchiKey:</b>	ATKJTFSZIAQJNV-UHFFFAOYSA-N
<b>Formula:</b>	C17H36
<b>SMILES:</b>	CCCCCCCCC(CC)(CC)CC
<b>Mol. weight [g/mol]:</b>	240.47

## Physical Properties

Property code	Value	Unit	Source
gf	95.10	kJ/mol	Joback Method
hf	-402.96	kJ/mol	Joback Method
hfus	32.37	kJ/mol	Joback Method
hvap	52.14	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.734		Crippen Method
mcvol	250.390	ml/mol	McGowan Method
pc	1247.73	kPa	Joback Method
rinsol	1653.00		NIST Webbook
tb	585.13	K	Joback Method
tc	750.44	K	Joback Method
tf	283.77	K	Joback Method
vc	0.977	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	669.21	J/molxK	585.13	Joback Method
cpg	762.91	J/molxK	722.89	Joback Method
cpg	745.83	J/molxK	695.34	Joback Method
cpg	727.95	J/molxK	667.79	Joback Method
cpg	709.25	J/molxK	640.23	Joback Method
cpg	689.68	J/molxK	612.68	Joback Method
cpg	779.23	J/molxK	750.44	Joback Method
dvisc	0.0001235	Paxs	585.13	Joback Method
dvisc	0.0001745	Paxs	534.90	Joback Method

dvisc	0.0002647	Paxs	484.68	Joback Method
dvisc	0.0004422	Paxs	434.45	Joback Method
dvisc	0.0008449	Paxs	384.22	Joback Method
dvisc	0.0019614	Paxs	334.00	Joback Method
dvisc	0.0061345	Paxs	283.77	Joback Method

## Sources

<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=U360412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360412&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>

## 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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