

# 1-Tridecanamine, N,N-dimethyl-

<b>Other names:</b>	N,N-dimethyltridecylamine
<b>Inchi:</b>	InChI=1S/C15H33N/c1-4-5-6-7-8-9-10-11-12-13-14-15-16(2)3/h4-15H2,1-3H3
<b>InchiKey:</b>	ADXNPXDFKKWVGE-UHFFFAOYSA-N
<b>Formula:</b>	C15H33N
<b>SMILES:</b>	CCCCCCCCCCCCCN(C)C
<b>Mol. weight [g/mol]:</b>	227.43
<b>CAS:</b>	17373-29-4

## Physical Properties

Property code	Value	Unit	Source
gf	186.20	kJ/mol	Joback Method
hf	-285.40	kJ/mol	Joback Method
hfus	37.63	kJ/mol	Joback Method
hvap	51.03	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.859		Crippen Method
mcvol	232.190	ml/mol	McGowan Method
pc	1413.31	kPa	Joback Method
tb	555.04	K	Joback Method
tc	713.24	K	Joback Method
tf	291.28	K	Joback Method
vc	0.893	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.67	J/mol×K	555.04	Joback Method
cpg	615.72	J/mol×K	581.41	Joback Method
cpg	634.02	J/mol×K	607.77	Joback Method
cpg	651.58	J/mol×K	634.14	Joback Method
cpg	668.42	J/mol×K	660.51	Joback Method
cpg	684.57	J/mol×K	686.87	Joback Method
cpg	700.04	J/mol×K	713.24	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=C17373294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17373294&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>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>hvp:</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>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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