

# N-ethylcetylamine

<b>Other names:</b>	N-ethylhexadecylamine
<b>Inchi:</b>	InChI=1S/C18H39N/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-4-2/h19H,3-18H2,1-2
<b>InchiKey:</b>	WMQYCVWUHCDVNS-UHFFFAOYSA-N
<b>Formula:</b>	C18H39N
<b>SMILES:</b>	CCCCCCCCCCCCCCCCNCC
<b>Mol. weight [g/mol]:</b>	269.51
<b>CAS:</b>	5877-76-9

## Physical Properties

Property code	Value	Unit	Source
gf	190.07	kJ/mol	Joback Method
hf	-361.38	kJ/mol	Joback Method
hfus	47.48	kJ/mol	Joback Method
hvap	62.10	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	6.077		Crippen Method
mcvol	274.460	ml/mol	McGowan Method
pc	1162.45	kPa	Joback Method
tb	615.15 ± 6.00	K	NIST Webbook
tc	824.88	K	Joback Method
tf	345.28	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	791.83	J/mol×K	661.41	Joback Method
cpg	811.62	J/mol×K	688.66	Joback Method
cpg	830.58	J/mol×K	715.90	Joback Method
cpg	848.73	J/mol×K	743.15	Joback Method
cpg	866.09	J/mol×K	770.39	Joback Method
cpg	882.69	J/mol×K	797.64	Joback Method
cpg	898.57	J/mol×K	824.88	Joback Method
hvapt	66.40	kJ/mol	509.50	NIST Webbook

# Sources

<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=C5877769&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5877769&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>h<sub>vapt</sub>:</b>	Enthalpy of vaporization at a given temperature
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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