

# Ethyl dodecyl amine

<b>Inchi:</b>	InChI=1S/C14H31N/c1-3-5-6-7-8-9-10-11-12-13-14-15-4-2/h15H,3-14H2,1-2H3
<b>InchiKey:</b>	LWIPGCTWFZCIKX-UHFFFAOYSA-N
<b>Formula:</b>	C14H31N
<b>SMILES:</b>	CCCCCCCCCCCCNCC
<b>Mol. weight [g/mol]:</b>	213.40

## Physical Properties

Property code	Value	Unit	Source
gf	156.39	kJ/mol	Joback Method
hf	-278.82	kJ/mol	Joback Method
hfus	37.12	kJ/mol	Joback Method
hvap	53.19	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.517		Crippen Method
mcvol	218.100	ml/mol	McGowan Method
pc	1539.08	kPa	Joback Method
rinpol	1555.00		NIST Webbook
rinpol	1555.00		NIST Webbook
tb	569.89	K	Joback Method
tc	732.88	K	Joback Method
tf	300.20	K	Joback Method
vc	0.855	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	567.82	J/mol×K	569.89	Joback Method
cpg	585.80	J/mol×K	597.06	Joback Method
cpg	603.06	J/mol×K	624.22	Joback Method
cpg	619.61	J/mol×K	651.39	Joback Method
cpg	635.48	J/mol×K	678.55	Joback Method
cpg	650.69	J/mol×K	705.72	Joback Method
cpg	665.26	J/mol×K	732.88	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=R543078&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R543078&amp;Units=SI</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>rinp:</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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