

# 1-Methyldodecylamine

<b>Other names:</b>	2-Aminotridecane
<b>Inchi:</b>	InChI=1S/C13H29N/c1-3-4-5-6-7-8-9-10-11-12-13(2)14/h13H,3-12,14H2,1-2H3
<b>InchiKey:</b>	WCLHZVGGJULAEJH-UHFFFAOYSA-N
<b>Formula:</b>	C13H29N
<b>SMILES:</b>	CCCCCCCCCCCC(C)N
<b>Mol. weight [g/mol]:</b>	199.38
<b>CAS:</b>	13205-57-7

## Physical Properties

Property code	Value	Unit	Source
gf	122.59	kJ/mol	Joback Method
hf	-283.14	kJ/mol	Joback Method
hfus	31.10	kJ/mol	Joback Method
hvap	54.78	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	4.255		Crippen Method
mcvol	204.010	ml/mol	McGowan Method
pc	1734.67	kPa	Joback Method
tb	568.93	K	Joback Method
tc	742.38	K	Joback Method
tf	304.53	K	Joback Method
vc	0.786	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.34	J/molxK	568.93	Joback Method
cpg	549.04	J/molxK	597.84	Joback Method
cpg	565.97	J/molxK	626.75	Joback Method
cpg	582.18	J/molxK	655.65	Joback Method
cpg	597.66	J/molxK	684.56	Joback Method
cpg	612.46	J/molxK	713.47	Joback Method
cpg	626.59	J/molxK	742.38	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=C13205577&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13205577&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>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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/17-524-1/1-Methyldodecylamine.pdf>

Generated by Cheméo on 2024-04-26 20:27:50.157482919 +0000 UTC m=+16452519.078060230.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.