

# Dodecanamide, N,N'-methylenebis-

<b>Other names:</b>	N,N'-Methylenebis-n-dodecanamide
<b>Inchi:</b>	InChI=1S/C25H50N2O2/c1-3-5-7-9-11-13-15-17-19-21-24(28)26-23-27-25(29)22-20-18-
<b>InchiKey:</b>	ZZJXLPLJWLLIZ-UHFFFAOYSA-N
<b>Formula:</b>	C25H50N2O2
<b>SMILES:</b>	CCCCCCCCCCCC(=O)NCNC(=O)CCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	410.68
<b>CAS:</b>	5136-45-8

## Physical Properties

Property code	Value	Unit	Source
gf	80.56	kJ/mol	Joback Method
hf	-677.55	kJ/mol	Joback Method
hfus	73.90	kJ/mol	Joback Method
hvap	97.61	kJ/mol	Joback Method
log10ws	-8.71		Crippen Method
logp	7.018		Crippen Method
mcvol	386.210	ml/mol	McGowan Method
pc	832.42	kPa	Joback Method
tb	979.48	K	Joback Method
tc	1208.06	K	Joback Method
tf	576.69	K	Joback Method
vc	1.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1349.39	J/molxK	979.48	Joback Method
cpg	1370.44	J/molxK	1017.58	Joback Method
cpg	1390.00	J/molxK	1055.67	Joback Method
cpg	1408.17	J/molxK	1093.77	Joback Method
cpg	1425.04	J/molxK	1131.87	Joback Method
cpg	1440.71	J/molxK	1169.97	Joback Method
cpg	1455.28	J/molxK	1208.06	Joback Method

# Sources

<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.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=C5136458&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5136458&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>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/58-899-1/Dodecanamide-N-N-methylenebis.pdf>

Generated by Cheméo on 2024-04-29 08:25:11.092570944 +0000 UTC m=+16668360.013148259.

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