

# 1-Naphthalenecarboxamide, N,N-dimethyl-

<b>Other names:</b>	1-Naphthamide, N,N-dimethyl-
<b>Inchi:</b>	InChI=1S/C13H13NO/c1-14(2)13(15)12-9-5-7-10-6-3-4-8-11(10)12/h3-9H,1-2H3
<b>InchiKey:</b>	QOTWSCXRKFJOAW-UHFFFAOYSA-N
<b>Formula:</b>	C13H13NO
<b>SMILES:</b>	CN(C)C(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	199.25
<b>CAS:</b>	3815-24-5

## Physical Properties

Property code	Value	Unit	Source
gf	249.87	kJ/mol	Joback Method
hf	59.43	kJ/mol	Joback Method
hfus	24.72	kJ/mol	Joback Method
hvap	57.90	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	2.542		Crippen Method
mcvol	162.360	ml/mol	McGowan Method
pc	2940.89	kPa	Joback Method
rinpol	2023.00		NIST Webbook
rinpol	2023.00		NIST Webbook
tb	613.79	K	Joback Method
tc	843.88	K	Joback Method
tf	390.31	K	Joback Method
vc	0.602	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.51	J/molxK	613.79	Joback Method
cpg	411.30	J/molxK	652.14	Joback Method
cpg	424.97	J/molxK	690.49	Joback Method
cpg	437.61	J/molxK	728.83	Joback Method
cpg	449.29	J/molxK	767.18	Joback Method
cpg	460.10	J/molxK	805.53	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=C3815245&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3815245&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>rinpol:</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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