

# Benzamide, N-(1-naphthyl)-4-chloro-

<b>Inchi:</b>	InChI=1S/C17H12ClNO/c18-14-10-8-13(9-11-14)17(20)19-16-7-3-5-12-4-1-2-6-15(12)16
<b>InchiKey:</b>	IQWRPJFSMOZFIL-UHFFFAOYSA-N
<b>Formula:</b>	C17H12ClNO
<b>SMILES:</b>	O=C(Nc1cccc2ccccc12)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	281.74

## Physical Properties

Property code	Value	Unit	Source
gf	353.01	kJ/mol	Joback Method
hf	172.13	kJ/mol	Joback Method
hfus	35.00	kJ/mol	Joback Method
hvap	78.52	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	4.745		Crippen Method
mcvol	207.200	ml/mol	McGowan Method
pc	2673.54	kPa	Joback Method
rinpola	2657.00		NIST Webbook
rinpola	2657.00		NIST Webbook
tb	812.13	K	Joback Method
tc	1071.62	K	Joback Method
tf	524.44	K	Joback Method
vc	0.783	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.08	J/mol×K	812.13	Joback Method
cpg	561.65	J/mol×K	855.38	Joback Method
cpg	573.14	J/mol×K	898.63	Joback Method
cpg	583.69	J/mol×K	941.87	Joback Method
cpg	593.45	J/mol×K	985.12	Joback Method
cpg	602.53	J/mol×K	1028.37	Joback Method
cpg	611.10	J/mol×K	1071.62	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=U307402&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307402&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpola:</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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