

# Benzamide, 4-chloro-N-ethyl-N-butyl-

<b>Inchi:</b>	InChI=1S/C13H18ClNO/c1-3-5-10-15(4-2)13(16)11-6-8-12(14)9-7-11/h6-9H,3-5,10H2,1-2H
<b>InchiKey:</b>	CKVXMCCRBQYGDV-UHFFFAOYSA-N
<b>Formula:</b>	C13H18ClNO
<b>SMILES:</b>	CCCCN(CC)C(=O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	239.74

## Physical Properties

Property code	Value	Unit	Source
gf	131.29	kJ/mol	Joback Method
hf	-147.38	kJ/mol	Joback Method
hfus	31.90	kJ/mol	Joback Method
hvap	60.64	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.602		Crippen Method
mvol	194.060	ml/mol	McGowan Method
pc	2212.45	kPa	Joback Method
rinpol	2020.00		NIST Webbook
rinpol	2020.00		NIST Webbook
tb	632.24	K	Joback Method
tc	839.24	K	Joback Method
tf	387.53	K	Joback Method
vc	0.729	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.02	J/mol×K	632.24	Joback Method
cpg	498.31	J/mol×K	666.74	Joback Method
cpg	512.65	J/mol×K	701.24	Joback Method
cpg	526.09	J/mol×K	735.74	Joback Method
cpg	538.66	J/mol×K	770.24	Joback Method
cpg	550.42	J/mol×K	804.74	Joback Method
cpg	561.41	J/mol×K	839.24	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415323&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415323&amp;Units=SI</a>
<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>

# 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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