

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

<b>Inchi:</b>	InChI=1S/C14H20ClNO/c1-3-5-6-11-16(4-2)14(17)12-7-9-13(15)10-8-12/h7-10H,3-6,11H
<b>InchiKey:</b>	UDBSQOSDFYNALE-UHFFFAOYSA-N
<b>Formula:</b>	C14H20ClNO
<b>SMILES:</b>	CCCCCN(CC)C(=O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	253.77

## Physical Properties

Property code	Value	Unit	Source
gf	139.71	kJ/mol	Joback Method
hf	-168.02	kJ/mol	Joback Method
hfus	34.48	kJ/mol	Joback Method
hvap	62.87	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.992		Crippen Method
mcvol	208.150	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	2070.00		NIST Webbook
rinpol	2070.00		NIST Webbook
tb	655.12	K	Joback Method
tc	859.15	K	Joback Method
tf	398.80	K	Joback Method
vc	0.784	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	534.59	J/mol×K	655.12	Joback Method
cpg	550.34	J/mol×K	689.13	Joback Method
cpg	565.12	J/mol×K	723.13	Joback Method
cpg	578.98	J/mol×K	757.14	Joback Method
cpg	591.97	J/mol×K	791.14	Joback Method
cpg	604.14	J/mol×K	825.15	Joback Method
cpg	615.52	J/mol×K	859.15	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415325&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415325&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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