

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

<b>Inchi:</b>	InChI=1S/C21H34ClNO/c1-3-5-6-7-8-9-10-11-12-13-18-23(4-2)21(24)19-14-16-20(22)17
<b>InchiKey:</b>	CNCFRXSHGVPCY-UHFFFAOYSA-N
<b>Formula:</b>	C21H34ClNO
<b>SMILES:</b>	CCCCCCCCCCCN(CC)C(=O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	351.95

## Physical Properties

Property code	Value	Unit	Source
gf	198.65	kJ/mol	Joback Method
hf	-312.50	kJ/mol	Joback Method
hfus	52.62	kJ/mol	Joback Method
hvap	78.45	kJ/mol	Joback Method
log10ws	-7.32		Crippen Method
logp	6.723		Crippen Method
mvol	306.780	ml/mol	McGowan Method
pc	1194.00	kPa	Joback Method
rinpol	3080.00		NIST Webbook
rinpol	3080.00		NIST Webbook
tb	815.28	K	Joback Method
tc	1010.68	K	Joback Method
tf	477.69	K	Joback Method
vc	1.177	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	928.52	J/mol×K	815.28	Joback Method
cpg	946.31	J/mol×K	847.85	Joback Method
cpg	963.05	J/mol×K	880.41	Joback Method
cpg	978.81	J/mol×K	912.98	Joback Method
cpg	993.63	J/mol×K	945.55	Joback Method
cpg	1007.58	J/mol×K	978.11	Joback Method
cpg	1020.71	J/mol×K	1010.68	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U415334&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415334&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>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

Latest version available from:

<https://www.cheméo.com/cid/80-287-5/Benzamide-4-chloro-N-ethyl-N-dodecyl.pdf>

Generated by Cheméo on 2024-04-26 09:25:42.194702697 +0000 UTC m=+16412791.115280012.

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