

# Benzamide, 2-bromo-N-ethyl-N-pentyl-

<b>Inchi:</b>	InChI=1S/C14H20BrNO/c1-3-5-8-11-16(4-2)14(17)12-9-6-7-10-13(12)15/h6-7,9-10H,3-5,
<b>InchiKey:</b>	FQNDEBMOFIPTQX-UHFFFAOYSA-N
<b>Formula:</b>	C14H20BrNO
<b>SMILES:</b>	CCCCCN(CC)C(=O)c1ccccc1Br
<b>Mol. weight [g/mol]:</b>	298.22

## Physical Properties

Property code	Value	Unit	Source
gf	165.96	kJ/mol	Joback Method
hf	-125.95	kJ/mol	Joback Method
hfus	35.57	kJ/mol	Joback Method
hvap	64.92	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.101		Crippen Method
mvol	213.410	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinpol	2206.00		NIST Webbook
rinpol	2206.00		NIST Webbook
tb	683.85	K	Joback Method
tc	895.31	K	Joback Method
tf	428.68	K	Joback Method
vc	0.797	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.91	J/mol×K	683.85	Joback Method
cpg	564.25	J/mol×K	719.09	Joback Method
cpg	578.61	J/mol×K	754.34	Joback Method
cpg	592.05	J/mol×K	789.58	Joback Method
cpg	604.61	J/mol×K	824.82	Joback Method
cpg	616.37	J/mol×K	860.07	Joback Method
cpg	627.37	J/mol×K	895.31	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=U415359&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415359&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>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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