

# benzylurea

<b>Inchi:</b>	InChI=1S/C8H10N2O/c9-8(11)10-6-7-4-2-1-3-5-7/h1-5H,6H2,(H3,9,10,11)
<b>InchiKey:</b>	RJNJWHFSKNJCTB-UHFFFAOYSA-N
<b>Formula:</b>	C8H10N2O
<b>SMILES:</b>	NC(=O)NCc1ccccc1
<b>Mol. weight [g/mol]:</b>	150.18

## Physical Properties

Property code	Value	Unit	Source
gf	155.81	kJ/mol	Joback Method
hf	2.76	kJ/mol	Joback Method
hfus	22.41	kJ/mol	Joback Method
hvap	59.50	kJ/mol	Joback Method
log10ws	-0.95		Estimated Solubility Method
log10ws	-0.95		Aqueous Solubility Prediction Method
logp	0.855		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4316.89	kPa	Joback Method
tb	585.69	K	Joback Method
tc	817.28	K	Joback Method
tf	421.65	K	Aqueous Solubility Prediction Method
vc	0.446	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.51	J/mol×K	585.69	Joback Method
cpg	299.27	J/mol×K	624.29	Joback Method
cpg	310.17	J/mol×K	662.89	Joback Method
cpg	320.27	J/mol×K	701.48	Joback Method
cpg	329.58	J/mol×K	740.08	Joback Method
cpg	338.17	J/mol×K	778.68	Joback Method
cpg	346.07	J/mol×K	817.28	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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>h vap:</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>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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