

# (2-fluorophenyl)urea

<b>Inchi:</b>	InChI=1S/C7H7FN2O/c8-5-3-1-2-4-6(5)10-7(9)11/h1-4H,(H3,9,10,11)
<b>InchiKey:</b>	PAWVOCWEWJXILY-UHFFFAOYSA-N
<b>Formula:</b>	C7H7FN2O
<b>SMILES:</b>	NC(=O)Nc1ccccc1F
<b>Mol. weight [g/mol]:</b>	154.14
<b>CAS:</b>	656-31-5

## Physical Properties

Property code	Value	Unit	Source
gf	-57.05	kJ/mol	Joback Method
hf	-184.18	kJ/mol	Joback Method
hfus	22.51	kJ/mol	Joback Method
hvap	57.12	kJ/mol	Joback Method
ie	8.50	eV	NIST Webbook
log10ws	-2.00		Crippen Method
logp	1.316		Crippen Method
mcvol	109.030	ml/mol	McGowan Method
pc	4528.58	kPa	Joback Method
tb	567.06	K	Joback Method
tc	792.48	K	Joback Method
tf	394.03	K	Joback Method
vc	0.407	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.98	J/molxK	567.06	Joback Method
cpg	259.91	J/molxK	604.63	Joback Method
cpg	269.15	J/molxK	642.20	Joback Method
cpg	277.72	J/molxK	679.77	Joback Method
cpg	285.65	J/molxK	717.34	Joback Method
cpg	292.98	J/molxK	754.91	Joback Method
cpg	299.72	J/molxK	792.48	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C656315&amp;Units=SI&amp;Mask=3FFF">http://webbook.nist.gov/cgi/cbook.cgi?ID=C656315&amp;Units=SI&amp;Mask=3FFF</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>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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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