

# 3-(2,3-Dichlorophenyl)-1,1-dimethylurea

<b>Other names:</b>	Urea, N'-(2,3-dichlorophenyl)-N,N-dimethyl-1-(2,3-Dichlorophenyl)-3,3-dimethyl urea
<b>Inchi:</b>	InChI=1S/C9H10Cl2N2O/c1-13(2)9(14)12-7-5-3-4-6(10)8(7)11/h3-5H,1-2H3,(H,12,14)
<b>InchiKey:</b>	ZVPQMESWKIQHGS-UHFFFAOYSA-N
<b>Formula:</b>	C9H10Cl2N2O
<b>SMILES:</b>	CN(C)C(=O)Nc1cccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	233.09
<b>CAS:</b>	10290-37-6

## Physical Properties

Property code	Value	Unit	Source
gf	165.44	kJ/mol	Joback Method
hf	-38.56	kJ/mol	Joback Method
hfus	30.44	kJ/mol	Joback Method
hvap	63.22	kJ/mol	Joback Method
log10ws	-3.01		Crippen Method
logp	3.087		Crippen Method
mvol	159.920	ml/mol	McGowan Method
pc	3152.62	kPa	Joback Method
tb	633.30	K	Joback Method
tc	858.57	K	Joback Method
tf	437.55	K	Joback Method
vc	0.589	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.37	J/molxK	633.30	Joback Method
cpg	371.57	J/molxK	670.85	Joback Method
cpg	381.95	J/molxK	708.39	Joback Method
cpg	391.57	J/molxK	745.94	Joback Method
cpg	400.45	J/molxK	783.48	Joback Method
cpg	408.65	J/molxK	821.03	Joback Method
cpg	416.20	J/molxK	858.57	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=C10290376&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10290376&amp;Units=SI</a>
<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>

# 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>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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