

# Benzenamine, 2,4,5-trichloro-

<b>Other names:</b>	Aniline, 2,4,5-trichloro- 2,4,5-Trichloroaniline
<b>Inchi:</b>	InChI=1S/C6H4Cl3N/c7-3-1-5(9)6(10)2-4(3)8/h1-2H,10H2
<b>InchiKey:</b>	GUMCAKKKNKYFEB-UHFFFAOYSA-N
<b>Formula:</b>	C6H4Cl3N
<b>SMILES:</b>	Nc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	196.46
<b>CAS:</b>	636-30-6

## Physical Properties

Property code	Value	Unit	Source
gf	113.82	kJ/mol	Joback Method
hf	21.52	kJ/mol	Joback Method
hfus	21.96	kJ/mol	Joback Method
hvap	57.01	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	3.229		Crippen Method
mvol	118.340	ml/mol	McGowan Method
pc	4098.62	kPa	Joback Method
tb	563.12	K	Joback Method
tc	813.61	K	Joback Method
tf	394.38	K	Joback Method
vc	0.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.61	J/molxK	563.12	Joback Method
cpg	216.78	J/molxK	604.87	Joback Method
cpg	223.43	J/molxK	646.62	Joback Method
cpg	229.59	J/molxK	688.36	Joback Method
cpg	235.27	J/molxK	730.11	Joback Method
cpg	240.50	J/molxK	771.86	Joback Method
cpg	245.30	J/molxK	813.61	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=C636306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C636306&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>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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