

# Halazone

<b>Other names:</b>	Benzoic acid, 4-[(dichloroamino)sulfonyl]- Benzoic acid, p-(dichlorosulfamoyl)- p-(N,N-Dichlorosulfamoyl)benzoic acid p-(N,N-Dichlorosulfamyl)benzoic acid p-Carboxybenzenesulfondichloroamide p-Dichlorosulfamoylbenzoic acid p-Sulfondichloramidobenzoic acid Halazon Pantocid Pantocide Pantosid Pantotsid Pentocid Zeptabs Cloritines Parasulfondichloramido benzoic acid 4-(N,N-Dichlorosulfamoyl)benzoic acid Kyselina p-N,N-dichlorsulfamoylbenzoova NSC 60717
<b>Inchi:</b>	InChI=1S/C7H5Cl2NO4S/c8-10(9)15(13,14)6-3-1-5(2-4-6)7(11)12/h1-4H,(H,11,12)
<b>InchiKey:</b>	XPDVQPODLRGWPL-UHFFFAOYSA-N
<b>Formula:</b>	C7H5Cl2NO4S
<b>SMILES:</b>	O=C(O)c1ccc(S(=O)(=O)N(Cl)Cl)cc1
<b>Mol. weight [g/mol]:</b>	270.09
<b>CAS:</b>	80-13-7

## Physical Properties

Property code	Value	Unit	Source
gf	-536.52	kJ/mol	Joback Method
hf	-644.86	kJ/mol	Joback Method
hfus	36.02	kJ/mol	Joback Method
hvap	86.99	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	1.683		Crippen Method
mcvol	155.720	ml/mol	McGowan Method
pc	5569.17	kPa	Joback Method
tb	672.35	K	Joback Method

tc	880.47	K	Joback Method
tf	449.21	K	Joback Method
vc	0.587	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.38	J/mol×K	672.35	Joback Method
cpg	351.04	J/mol×K	707.04	Joback Method
cpg	358.03	J/mol×K	741.72	Joback Method
cpg	364.35	J/mol×K	776.41	Joback Method
cpg	370.04	J/mol×K	811.09	Joback Method
cpg	375.09	J/mol×K	845.78	Joback Method
cpg	379.53	J/mol×K	880.47	Joback Method

## Sources

<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=C80137&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C80137&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/67-263-6/Halazone.pdf>

Generated by Cheméo on 2024-04-27 20:40:18.629087278 +0000 UTC m=+16539667.549664593.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.