

# 3-Chlorobenzenesulfonyl chloride

<b>Other names:</b>	Benzenesulfonyl chloride, 3-chloro-3-chlorobenzenesulphonyl chloride
<b>Inchi:</b>	InChI=1S/C6H4Cl2O2S/c7-5-2-1-3-6(4-5)11(8,9)10/h1-4H
<b>InchiKey:</b>	OINWZUJVEXUHCC-UHFFFAOYSA-N
<b>Formula:</b>	C6H4Cl2O2S
<b>SMILES:</b>	O=S(=O)(Cl)c1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	211.07
<b>CAS:</b>	2888-06-4

## Physical Properties

Property code	Value	Unit	Source
gf	-389.98	kJ/mol	Joback Method
hf	-426.94	kJ/mol	Joback Method
hfus	24.72	kJ/mol	Joback Method
hvap	59.29	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	2.268		Crippen Method
mvol	124.210	ml/mol	McGowan Method
pc	5123.98	kPa	Joback Method
tb	490.98	K	Joback Method
tc	714.16	K	Joback Method
tf	294.72	K	Joback Method
vc	0.487	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.31	J/mol×K	490.98	Joback Method
cpg	226.54	J/mol×K	528.18	Joback Method
cpg	235.17	J/mol×K	565.37	Joback Method
cpg	243.20	J/mol×K	602.57	Joback Method
cpg	250.65	J/mol×K	639.77	Joback Method
cpg	257.50	J/mol×K	676.96	Joback Method
cpg	263.77	J/mol×K	714.16	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=C2888064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2888064&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>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

Latest version available from:

<https://www.chemeo.com/cid/22-856-7/3-Chlorobenzenesulfonyl-chloride.pdf>

Generated by Cheméo on 2024-04-24 04:51:37.332130563 +0000 UTC m=+16223546.252707875.

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