

# Benzenesulfonyl chloride, 2,4,5-trichloro-

<b>Other names:</b>	2,4,5-Trichlorobenzenesulfonyl chloride 2,4,5-trichlorobenzenesulphonyl chloride
<b>Inchi:</b>	InChI=1S/C6H2Cl4O2S/c7-3-1-5(9)6(2-4(3)8)13(10,11)12/h1-2H
<b>InchiKey:</b>	WNVVRCKTQSCPAC-UHFFFAOYSA-N
<b>Formula:</b>	C6H2Cl4O2S
<b>SMILES:</b>	O=S(=O)(Cl)c1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	279.96
<b>CAS:</b>	15945-07-0

## Physical Properties

Property code	Value	Unit	Source
gf	-433.10	kJ/mol	Joback Method
hf	-481.36	kJ/mol	Joback Method
hfus	32.34	kJ/mol	Joback Method
hvap	69.39	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.574		Crippen Method
mvol	148.690	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
tb	575.80	K	Joback Method
tc	810.68	K	Joback Method
tf	379.60	K	Joback Method
vc	0.586	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.03	J/molxK	575.80	Joback Method
cpg	263.19	J/molxK	614.95	Joback Method
cpg	269.80	J/molxK	654.09	Joback Method
cpg	275.86	J/molxK	693.24	Joback Method
cpg	281.36	J/molxK	732.39	Joback Method
cpg	286.30	J/molxK	771.53	Joback Method
cpg	290.67	J/molxK	810.68	Joback Method

# Sources

<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=C15945070&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15945070&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.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>

# 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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