

# Bis(4-Chlorophenylsulfonyl)methane

<b>Inchi:</b>	InChI=1S/C13H10Cl2O4S2/c14-10-1-5-12(6-2-10)20(16,17)9-21(18,19)13-7-3-11(15)4-8
<b>InchiKey:</b>	UQLKRAFFXYZVBU-UHFFFAOYSA-N
<b>Formula:</b>	C13H10Cl2O4S2
<b>SMILES:</b>	O=S(=O)(CS(=O)(=O)c1ccc(Cl)cc1)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	365.25
<b>CAS:</b>	2394-02-7

## Physical Properties

Property code	Value	Unit	Source
gf	-696.80	kJ/mol	Joback Method
hf	-799.71	kJ/mol	Joback Method
hfus	47.88	kJ/mol	Joback Method
hvap	96.45	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.199		Crippen Method
mcvol	227.170	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
tb	730.58	K	Joback Method
tc	961.57	K	Joback Method
tf	451.11	K	Joback Method
vc	0.897	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.86	J/molxK	730.58	Joback Method
cpg	554.26	J/molxK	769.08	Joback Method
cpg	565.37	J/molxK	807.58	Joback Method
cpg	575.19	J/molxK	846.07	Joback Method
cpg	583.74	J/molxK	884.57	Joback Method
cpg	591.04	J/molxK	923.07	Joback Method
cpg	597.08	J/molxK	961.57	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.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=C2394027&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2394027&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>m cvol:</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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