

# 4-Chloro-meta-benzenedithiol

<b>Other names:</b>	1,3-Benzenedithiol, 4-chloro-4-chlorobenzene-1,3-dithiol
<b>Inchi:</b>	InChI=1S/C6H5ClS2/c7-5-2-1-4(8)3-6(5)9/h1-3,8-9H
<b>InchiKey:</b>	HCDLDZCJYMCKQH-UHFFFAOYSA-N
<b>Formula:</b>	C6H5ClS2
<b>SMILES:</b>	Sc1ccc(Cl)c(S)c1
<b>Mol. weight [g/mol]:</b>	176.69
<b>CAS:</b>	58593-78-5

## Physical Properties

Property code	Value	Unit	Source
gf	139.64	kJ/mol	Joback Method
hf	107.64	kJ/mol	Joback Method
hfus	16.84	kJ/mol	Joback Method
hvap	50.41	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.917		Crippen Method
mvol	116.580	ml/mol	McGowan Method
pc	5087.49	kPa	Joback Method
tb	536.47	K	Joback Method
tc	815.10	K	Joback Method
tf	311.68	K	Joback Method
vc	0.420	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.82	J/molxK	536.47	Joback Method
cpg	210.80	J/molxK	582.91	Joback Method
cpg	219.07	J/molxK	629.35	Joback Method
cpg	226.65	J/molxK	675.79	Joback Method
cpg	233.58	J/molxK	722.22	Joback Method
cpg	239.89	J/molxK	768.66	Joback Method
cpg	245.61	J/molxK	815.10	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	418.70	K	1.70	NIST Webbook

## Sources

<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=C58593785&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C58593785&amp;Units=SI</a>
<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>

## 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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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