

# 4,4'-Dichlorodiphenylsulphide

<b>Other names:</b>	Sulfide, bis(p-chlorophenyl) p-Chlorophenyl sulfide Bis(p-chlorophenyl) sulfide Bis(4-chlorophenyl) sulfide Di-p-chlorophenyl sulfide 4,4'-Dichlorodiphenyl sulfide Benzene, 1,1'-thiobis(4-chloro-4-Chlorophenyl sulfide NSC 40470
<b>Inchi:</b>	InChI=1S/C12H8Cl2S/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8H
<b>InchiKey:</b>	MJEPOVIWHVRBIT-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2S
<b>SMILES:</b>	Clc1ccc(Sc2ccc(Cl)cc2)cc1
<b>Mol. weight [g/mol]:</b>	255.16
<b>CAS:</b>	5181-10-2

## Physical Properties

Property code	Value	Unit	Source
gf	264.98	kJ/mol	Joback Method
hf	169.50	kJ/mol	Joback Method
hfus	26.66	kJ/mol	Joback Method
hvap	63.77	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	5.145		Crippen Method
mcvol	173.250	ml/mol	McGowan Method
pc	3103.64	kPa	Joback Method
tb	680.92	K	Joback Method
tc	959.03	K	Joback Method
tf	397.12	K	Joback Method
vc	0.643	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	374.16	J/mol×K	680.92	Joback Method
cpg	386.80	J/mol×K	727.27	Joback Method
cpg	398.19	J/mol×K	773.62	Joback Method
cpg	408.42	J/mol×K	819.98	Joback Method
cpg	417.55	J/mol×K	866.33	Joback Method
cpg	425.66	J/mol×K	912.68	Joback Method
cpg	432.82	J/mol×K	959.03	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=C5181102&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5181102&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

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