

4,4'-DICHLORODIPHENYLSULPHIDE

Other names:	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
Inchi:	InChI=1S/C12H8Cl2S/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8H
InchiKey:	MJEPOVIWHVRBIT-UHFFFAOYSA-N
Formula:	C12H8Cl2S
SMILES:	Clc1ccc(Sc2ccc(Cl)cc2)cc1
Mol. weight [g/mol]:	255.17

Physical Properties

Property code	Value	Unit	Source
hf	146.52	kJ/mol	Cheméo Relay (1.0)
hfus	26.66	kJ/mol	Joback Method
hvap	85.55	kJ/mol	Cheméo Relay (1.0)
ie	8.13	eV	NIST Webbook
log10ws	-6.73		Cheméo Relay (1.0)
logp	5.145		Crippen Method
mcvol	173.250	ml/mol	McGowan Method
tb	623.64	K	Cheméo Relay (1.0)
tc	840.36	K	Cheméo Relay (1.0)
tf	384.55	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5181102&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/94-029-6/4-4-DICHLORODIPHENYLSULPHIDE.pdf>

Generated by Cheméo on 2026-07-21 18:29:08.081074132 +0000 UTC m=+169643.922959507.

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