

# Sulfoxide, bis(p-chlorophenyl)

<b>Other names:</b>	Benzene, 1,1'-sulfinylbis[4-chloro-p-Chlorophenyl sulfoxide p,p'-Dichlorodiphenyl sulfoxide Bis(p-chlorophenyl) sulfoxide Bis(4-chlorophenyl) sulfoxide Di-p-chlorophenyl sulfoxide 4,4'-Dichlorodiphenyl sulfoxide 4,4-Dichlorodiphenyl sulfoxide Sulfoxide, bis(4-chlorophenyl)- NSC 406205 4-Chlorophenyl sulfoxide bis(p-chlorophenyl)sulphoxide
<b>Inchi:</b>	InChI=1S/C12H8Cl2OS/c13-9-1-5-11(6-2-9)16(15)12-7-3-10(14)4-8-12/h1-8H
<b>InchiKey:</b>	KJGYFISADIZFEL-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2OS
<b>SMILES:</b>	O=S(c1ccc(Cl)cc1)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	271.16
<b>CAS:</b>	3085-42-5

## Physical Properties

Property code	Value	Unit	Source
gf	14.15	kJ/mol	Joback Method
hf	-78.11	kJ/mol	Joback Method
hfus	30.29	kJ/mol	Joback Method
hvap	69.68	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	4.160		Crippen Method
mcvol	179.120	ml/mol	McGowan Method
pc	3356.75	kPa	Joback Method
tb	670.42	K	Joback Method
tc	932.24	K	Joback Method
tf	399.20	K	Joback Method
vc	0.679	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	391.42	J/molxK	670.42	Joback Method
cpg	404.14	J/molxK	714.06	Joback Method
cpg	415.63	J/molxK	757.69	Joback Method
cpg	425.96	J/molxK	801.33	Joback Method
cpg	435.18	J/molxK	844.97	Joback Method
cpg	443.35	J/molxK	888.60	Joback Method
cpg	450.50	J/molxK	932.24	Joback Method

## Sources

Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3085425&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3085425&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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