

# 2-Chlorodiphenyl ether

<b>Inchi:</b>	InChI=1S/C12H9ClO/c13-11-8-4-5-9-12(11)14-10-6-2-1-3-7-10/h1-9H
<b>InchiKey:</b>	IPBRZLMGGXHHMS-UHFFFAOYSA-N
<b>Formula:</b>	C12H9ClO
<b>SMILES:</b>	Clc1ccccc1Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	204.66

## Physical Properties

Property code	Value	Unit	Source
gf	148.42	kJ/mol	Joback Method
hf	22.62	kJ/mol	Joback Method
hfus	19.91	kJ/mol	Joback Method
hvap	54.31	kJ/mol	Joback Method
log10ws	-4.78		Aqueous Solubility Prediction Method
logp	4.132		Crippen Method
mvol	150.530	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
tb	592.15	K	Joback Method
tc	843.25	K	Joback Method
tf	342.51	K	Joback Method
vc	0.558	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.17	J/molxK	592.15	Joback Method
cpg	388.95	J/molxK	801.40	Joback Method
cpg	378.84	J/molxK	759.55	Joback Method
cpg	367.76	J/molxK	717.70	Joback Method
cpg	355.65	J/molxK	675.85	Joback Method
cpg	342.47	J/molxK	634.00	Joback Method
cpg	398.13	J/molxK	843.25	Joback Method
dvisc	0.0001652	Paxs	592.15	Joback Method
dvisc	0.0002065	Paxs	550.54	Joback Method

dvisc	0.0002678	Paxs	508.94	Joback Method
dvisc	0.0003636	Paxs	467.33	Joback Method
dvisc	0.0005242	Paxs	425.72	Joback Method
dvisc	0.0008182	Paxs	384.12	Joback Method
dvisc	0.0014227	Paxs	342.51	Joback Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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