

# [1,1'-Biphenyl]-4-ol, 3,5-dichloro-

<b>Other names:</b>	4-Biphenylol, 3,5-dichloro- 2,6-Dichloro-p-phenylphenol 3,5-Dichloro-4-biphenylol 3,5-Dichloro-4-hydroxybiphenyl
<b>Inchi:</b>	InChI=1S/C12H8Cl2O/c13-10-6-9(7-11(14)12(10)15)8-4-2-1-3-5-8/h1-7,15H
<b>InchiKey:</b>	HHFXDKAXCKUSIV-UHFFFAOYSA-N
<b>Formula:</b>	C12H8Cl2O
<b>SMILES:</b>	Oc1c(Cl)cc(-c2ccccc2)cc1Cl
<b>Mol. weight [g/mol]:</b>	239.10
<b>CAS:</b>	1137-59-3

## Physical Properties

Property code	Value	Unit	Source
gf	77.24	kJ/mol	Joback Method
hf	-49.68	kJ/mol	Joback Method
hfus	28.32	kJ/mol	Joback Method
hvap	69.97	kJ/mol	Joback Method
log10ws	-4.99		Crippen Method
logp	4.366		Crippen Method
mcvol	162.770	ml/mol	McGowan Method
pc	3615.89	kPa	Joback Method
rinpol	1846.00		NIST Webbook
rinpol	1846.00		NIST Webbook
rinpol	1846.00		NIST Webbook
tb	692.76	K	Joback Method
tc	960.07	K	Joback Method
tf	474.44	K	Joback Method
vc	0.555	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.08	J/mol×K	692.76	Joback Method
cpg	382.17	J/mol×K	737.31	Joback Method

cpg	392.36	J/mol×K	781.86	Joback Method
cpg	401.79	J/mol×K	826.42	Joback Method
cpg	410.63	J/mol×K	870.97	Joback Method
cpg	419.03	J/mol×K	915.52	Joback Method
cpg	427.12	J/mol×K	960.07	Joback Method
dvisc	0.0003217	Paxs	474.44	Joback Method
dvisc	0.0001697	Paxs	510.83	Joback Method
dvisc	0.0000975	Paxs	547.21	Joback Method
dvisc	0.0000600	Paxs	583.60	Joback Method
dvisc	0.0000391	Paxs	619.99	Joback Method
dvisc	0.0000267	Paxs	656.37	Joback Method
dvisc	0.0000190	Paxs	692.76	Joback Method

## Sources

<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=C1137593&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1137593&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## Legend

<b>cpg:</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>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>rinpol:</b>	Non-polar retention indices
<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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