

# 4-Chloro[1,1'-biphenyl]-3-ol

<b>Other names:</b>	[1,1'-Biphenyl]-3-ol, 4-chloro-
<b>Inchi:</b>	InChI=1S/C12H9ClO/c13-11-7-6-10(8-12(11)14)9-4-2-1-3-5-9/h1-8,14H
<b>InchiKey:</b>	JLOLMJZKXRFOOE-UHFFFAOYSA-N
<b>Formula:</b>	C12H9ClO
<b>SMILES:</b>	Oc1cc(-c2ccccc2)ccc1Cl
<b>Mol. weight [g/mol]:</b>	204.65
<b>CAS:</b>	18773-38-1

## Physical Properties

Property code	Value	Unit	Source
gf	98.80	kJ/mol	Joback Method
hf	-22.47	kJ/mol	Joback Method
hfus	24.51	kJ/mol	Joback Method
hvap	64.92	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.713		Crippen Method
mcvol	150.530	ml/mol	McGowan Method
pc	3853.09	kPa	Joback Method
rinpol	1715.00		NIST Webbook
tb	650.35	K	Joback Method
tc	914.63	K	Joback Method
tf	432.00	K	Joback Method
vc	0.506	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.29	J/mol×K	650.35	Joback Method
cpg	404.39	J/mol×K	870.58	Joback Method
cpg	395.30	J/mol×K	826.54	Joback Method
cpg	385.60	J/mol×K	782.49	Joback Method
cpg	375.13	J/mol×K	738.44	Joback Method
cpg	363.75	J/mol×K	694.40	Joback Method
cpg	413.02	J/mol×K	914.63	Joback Method

dvisc	0.0000246	Paxs	650.35	Joback Method
dvisc	0.0000359	Paxs	613.96	Joback Method
dvisc	0.0000550	Paxs	577.57	Joback Method
dvisc	0.0000890	Paxs	541.17	Joback Method
dvisc	0.0001545	Paxs	504.78	Joback Method
dvisc	0.0002923	Paxs	468.39	Joback Method
dvisc	0.0006154	Paxs	432.00	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C18773381&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18773381&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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>mvol:</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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