

# 1,1'-Biphenyl-4-ol, 2,3,3'-trichloro

<b>Inchi:</b>	InChI=1S/C12H7Cl3O/c13-8-3-1-2-7(6-8)9-4-5-10(16)12(15)11(9)14/h1-6,16H
<b>InchiKey:</b>	LXYBIOAYNYNOPI-UHFFFAOYSA-N
<b>Formula:</b>	C12H7Cl3O
<b>SMILES:</b>	Oc1ccc(-c2cccc(Cl)c2)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	273.54

## Physical Properties

Property code	Value	Unit	Source
gf	55.68	kJ/mol	Joback Method
hf	-76.89	kJ/mol	Joback Method
hfus	32.12	kJ/mol	Joback Method
hvap	75.01	kJ/mol	Joback Method
log10ws	-5.68		Crippen Method
logp	5.019		Crippen Method
mcvol	175.010	ml/mol	McGowan Method
pc	3399.94	kPa	Joback Method
rinpol	2048.00		NIST Webbook
tb	735.17	K	Joback Method
tc	1004.96	K	Joback Method
tf	516.88	K	Joback Method
vc	0.605	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.99	J/mol×K	735.17	Joback Method
cpg	398.89	J/mol×K	780.13	Joback Method
cpg	408.05	J/mol×K	825.10	Joback Method
cpg	416.63	J/mol×K	870.06	Joback Method
cpg	424.77	J/mol×K	915.03	Joback Method
cpg	432.62	J/mol×K	959.99	Joback Method
cpg	440.33	J/mol×K	1004.96	Joback Method
dvisc	0.0001819	Paxs	516.88	Joback Method
dvisc	0.0001042	Paxs	553.26	Joback Method

dvisc	0.0000639	Paxs	589.64	Joback Method
dvisc	0.0000415	Paxs	626.03	Joback Method
dvisc	0.0000283	Paxs	662.41	Joback Method
dvisc	0.0000200	Paxs	698.79	Joback Method
dvisc	0.0000147	Paxs	735.17	Joback Method

## Sources

<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.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>
<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=R343912&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R343912&amp;Units=SI</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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