

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

Inchi:	InChI=1S/C12H7Cl3O/c13-7-1-3-9(11(14)5-7)10-4-2-8(16)6-12(10)15/h1-6,16H
InchiKey:	PKQKHYJTVPQNRW-UHFFFAOYSA-N
Formula:	C12H7Cl3O
SMILES:	Oc1ccc(-c2ccc(Cl)cc2Cl)c(Cl)c1
Mol. weight [g/mol]:	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	2068.00		NIST Webbook
tb	735.17	K	Joback Method
tc	1004.96	K	Joback Method
tf	516.88	K	Joback Method
vc	0.605	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.99	J/mol×K	735.17	Joback Method
cpg	432.62	J/mol×K	959.99	Joback Method
cpg	424.77	J/mol×K	915.03	Joback Method
cpg	416.63	J/mol×K	870.06	Joback Method
cpg	408.05	J/mol×K	825.10	Joback Method
cpg	398.89	J/mol×K	780.13	Joback Method
cpg	440.33	J/mol×K	1004.96	Joback Method
dvisc	0.0000147	Pa×s	735.17	Joback Method
dvisc	0.0000200	Pa×s	698.79	Joback Method

dvisc	0.0000283	Pa×s	662.41	Joback Method
dvisc	0.0000415	Pa×s	626.03	Joback Method
dvisc	0.0000639	Pa×s	589.64	Joback Method
dvisc	0.0001042	Pa×s	553.26	Joback Method
dvisc	0.0001819	Pa×s	516.88	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R343843&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/16-167-9/1-1-Biphenyl-4-ol-2-2-4-trichloro.pdf>

Generated by Cheméo on 2025-12-05 14:23:52.866170069 +0000 UTC m=+4692830.396210727.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.