

# 1,1'-Biphenyl, 4-(chloromethyl)-

<b>Other names:</b>	Biphenyl, 4-(chloromethyl)- 4-(Chloromethyl)biphenyl 4CMB p-Phenylbenzyl Chloride 4-Phenylbenzyl chloride
<b>Inchi:</b>	InChI=1S/C13H11Cl/c14-10-11-6-8-13(9-7-11)12-4-2-1-3-5-12/h1-9H,10H2
<b>InchiKey:</b>	HLQZCRVEEQKNMS-UHFFFAOYSA-N
<b>Formula:</b>	C13H11Cl
<b>SMILES:</b>	ClCc1ccc(-c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	202.68
<b>CAS:</b>	1667-11-4

## Physical Properties

Property code	Value	Unit	Source
gf	261.84	kJ/mol	Joback Method
hf	134.20	kJ/mol	Joback Method
hfus	21.32	kJ/mol	Joback Method
hvap	54.13	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.092		Crippen Method
mcvol	158.750	ml/mol	McGowan Method
pc	2902.98	kPa	Joback Method
tb	592.61	K	Joback Method
tc	842.20	K	Joback Method
tf	331.55	K	Joback Method
vc	0.597	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.47	J/molxK	592.61	Joback Method
cpg	417.22	J/molxK	800.61	Joback Method
cpg	406.25	J/molxK	759.01	Joback Method
cpg	394.27	J/molxK	717.41	Joback Method

cpg	381.19	J/mol×K	675.81	Joback Method
cpg	366.95	J/mol×K	634.21	Joback Method
cpg	427.26	J/mol×K	842.20	Joback Method
dvisc	0.0001877	Paxs	592.61	Joback Method
dvisc	0.0002363	Paxs	549.10	Joback Method
dvisc	0.0003095	Paxs	505.59	Joback Method
dvisc	0.0004265	Paxs	462.08	Joback Method
dvisc	0.0006282	Paxs	418.57	Joback Method
dvisc	0.0010122	Paxs	375.06	Joback Method
dvisc	0.0018486	Paxs	331.55	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C1667114&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1667114&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>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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