

# 4-Bromo-2-phenyl phenol

<b>Other names:</b>	5-bromo[1,1'-biphenyl]-2-ol [1,1'-Biphenyl]-2-ol, 5-bromo-
<b>Inchi:</b>	InChI=1S/C12H9BrO/c13-10-6-7-12(14)11(8-10)9-4-2-1-3-5-9/h1-8,14H
<b>InchiKey:</b>	AWIYHSVPCXSVRF-UHFFFAOYSA-N
<b>Formula:</b>	C12H9BrO
<b>SMILES:</b>	Oc1ccc(Br)cc1-c1ccccc1
<b>Mol. weight [g/mol]:</b>	249.10
<b>CAS:</b>	16434-97-2

## Physical Properties

Property code	Value	Unit	Source
gf	125.05	kJ/mol	Joback Method
hf	19.60	kJ/mol	Joback Method
hfus	25.60	kJ/mol	Joback Method
hvap	66.97	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	3.822		Crippen Method
mvol	155.790	ml/mol	McGowan Method
pc	4414.96	kPa	Joback Method
tb	679.08	K	Joback Method
tc	952.61	K	Joback Method
tf	326.50 ± 0.50	K	NIST Webbook
vc	0.519	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.51	J/molxK	679.08	Joback Method
cpg	412.11	J/molxK	907.02	Joback Method
cpg	403.09	J/molxK	861.43	Joback Method
cpg	393.61	J/molxK	815.84	Joback Method
cpg	383.48	J/molxK	770.26	Joback Method
cpg	372.50	J/molxK	724.67	Joback Method
cpg	420.84	J/molxK	952.61	Joback Method

dvisc	0.0000217	Paxs	679.08	Joback Method
dvisc	0.0000308	Paxs	642.88	Joback Method
dvisc	0.0000457	Paxs	606.68	Joback Method
dvisc	0.0000713	Paxs	570.48	Joback Method
dvisc	0.0001182	Paxs	534.28	Joback Method
dvisc	0.0002109	Paxs	498.08	Joback Method
dvisc	0.0004118	Paxs	461.88	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	454.00 ± 1.00	K	1.60	NIST Webbook

## Sources

<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=C16434972&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16434972&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>

## 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>tbrp:</b>	Boiling point at reduced pressure

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/23-961-9/4-Bromo-2-phenyl-phenol.pdf>

Generated by Cheméo on 2024-04-26 20:44:39.08117956 +0000 UTC m=+16453528.001756915.

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