

# 2-Hydroxy-3-phenylbenzoic acid

**Other names:**

3-Phenylsalicylic acid  
[1,1'-Biphenyl]-3-carboxylic acid, 2-hydroxy-  
m-Phenylsalicylic acid  
Salicylic acid, 3-phenyl-  
USAF do-59  
3-Biphenylcarboxylic acid, 2-hydroxy-  
2-Hydroxy[1,1'-biphenyl]-3-carboxylic acid

**Inchi:** InChI=1S/C13H10O3/c14-12-10(9-5-2-1-3-6-9)7-4-8-11(12)13(15)16/h1-8,14H,(H,15,16)**InchiKey:** ZJWUEJOPKFYFQD-UHFFFAOYSA-N**Formula:** C13H10O3**SMILES:** O=C(O)c1cccc(-c2ccccc2)c1O**Mol. weight [g/mol]:** 214.22**CAS:** 304-06-3

## Physical Properties

Property code	Value	Unit	Source
gf	-146.59	kJ/mol	Joback Method
hf	-292.18	kJ/mol	Joback Method
hfus	28.59	kJ/mol	Joback Method
hvap	86.19	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	2.757		Crippen Method
mcvol	159.820	ml/mol	McGowan Method
pc	4356.87	kPa	Joback Method
tb	781.85	K	Joback Method
tc	1019.61	K	Joback Method
tf	524.10	K	Joback Method
vc	0.538	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.77	J/mol×K	781.85	Joback Method
cpg	476.03	J/mol×K	979.99	Joback Method

cpg	467.98	J/molxK	940.36	Joback Method
cpg	459.64	J/molxK	900.73	Joback Method
cpg	450.90	J/molxK	861.10	Joback Method
cpg	441.64	J/molxK	821.48	Joback Method
cpg	483.92	J/molxK	1019.61	Joback Method
dvisc	0.0000027	Paxs	781.85	Joback Method
dvisc	0.0000043	Paxs	738.89	Joback Method
dvisc	0.0000071	Paxs	695.93	Joback Method
dvisc	0.0000125	Paxs	652.98	Joback Method
dvisc	0.0000239	Paxs	610.02	Joback Method
dvisc	0.0000506	Paxs	567.06	Joback Method
dvisc	0.0001208	Paxs	524.10	Joback Method

## 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=C304063&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C304063&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>mccvol:</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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