

# Benzamide, 2,5-dihydroxy-

<b>Other names:</b>	Salicylamide, 5-hydroxy- 2,5-Dihydroxy benzamide
<b>Inchi:</b>	InChI=1S/C7H7NO3/c8-7(11)5-3-4(9)1-2-6(5)10/h1-3,9-10H,(H2,8,11)
<b>InchiKey:</b>	FRXZIFVYTNMCHF-UHFFFAOYSA-N
<b>Formula:</b>	C7H7NO3
<b>SMILES:</b>	NC(=O)c1cc(O)ccc1O
<b>Mol. weight [g/mol]:</b>	153.14
<b>CAS:</b>	52405-73-9

## Physical Properties

Property code	Value	Unit	Source
gf	-251.24	kJ/mol	Joback Method
hf	-384.69	kJ/mol	Joback Method
hfus	26.29	kJ/mol	Joback Method
hvap	76.87	kJ/mol	Joback Method
log10ws	-0.74		Crippen Method
logp	0.197		Crippen Method
mcvol	109.020	ml/mol	McGowan Method
pc	7681.19	kPa	Joback Method
tb	673.88	K	Joback Method
tc	930.82	K	Joback Method
tf	551.70	K	Joback Method
vc	0.286	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.95	J/molxK	673.88	Joback Method
cpg	286.51	J/molxK	716.70	Joback Method
cpg	293.56	J/molxK	759.53	Joback Method
cpg	300.26	J/molxK	802.35	Joback Method
cpg	306.81	J/molxK	845.17	Joback Method
cpg	313.36	J/molxK	888.00	Joback Method
cpg	320.08	J/molxK	930.82	Joback Method

# Sources

<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=C52405739&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52405739&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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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