

# Salicyl hydrazide

**Other names:** Benzoic acid, 2-hydroxy-, hydrazide  
Salicylic acid, hydrazide  
o-Hydroxybenzhydrazide  
o-Hydroxybenzoic acid hydrazide  
o-Hydroxybenzoylhydrazine  
o-Hydroxylbenzhydrazide  
Salicyclic acid hydrazide  
Salicyloyl hydrazide  
Salicyloylhydrazine  
2-Hydroxybenzohydrazide  
2-Hydroxybenzoic acid hydrazide  
2-Hydroxybenzoylhydrazide  
Salicylic hydrazide  
2-Hydroxybenzhydrazide  
o-Hydroxybenzoylhydrazide  
2-Hydroxybenzoylhydrazine  
Salicoyl hydrazide  
Salicyclohydrazine  
2-Hydroxybenzenecarboxylic acid hydrazide  
o-Hydroxybenzoic hydrazide  
NSC 652  
salicylohydrazide

**Inchi:** InChI=1S/C7H8N2O2/c8-9-7(11)5-3-1-2-4-6(5)10/h1-4,10H,8H2,(H,9,11)

**InchiKey:** XSXYESVZDBAKKT-UHFFFAOYSA-N

**Formula:** C7H8N2O2

**SMILES:** NNC(=O)c1ccccc1O

**Mol. weight [g/mol]:** 152.15

**CAS:** 936-02-7

## Physical Properties

Property code	Value	Unit	Source
gf	-7.23	kJ/mol	Joback Method
hf	-153.91	kJ/mol	Joback Method
hfus	25.61	kJ/mol	Joback Method
hvap	70.29	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method

logp	-0.004		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	6132.23	kPa	Joback Method
tb	643.43	K	Joback Method
tc	889.21	K	Joback Method
tf	492.64	K	Joback Method
vc	0.355	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.79	J/mol×K	643.43	Joback Method
cpg	292.93	J/mol×K	684.39	Joback Method
cpg	301.33	J/mol×K	725.36	Joback Method
cpg	309.10	J/mol×K	766.32	Joback Method
cpg	316.34	J/mol×K	807.28	Joback Method
cpg	323.14	J/mol×K	848.25	Joback Method
cpg	329.62	J/mol×K	889.21	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C936027&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C936027&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>
<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>

## 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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