

# Acetamide, N-(2-hydroxyphenyl)-

<b>Other names:</b>	2'-Hydroxyacetanilide 2-(Acetylamino)phenol 2-Acetaminophenol 2-Hydroxyacetanilide 2-Hydroxyanilid kyseliny octove 2-acetamidophenol Acet-o-aminofenol Acetanilide, 2'-hydroxy- N-(2-hydroxyphenyl)acetamide N-(2-hydroxyphenyl)ethanamide N-Acetyl-2-aminophenol N-Acetyl-o-aminophenol NSC 3989 Phenol, 2-acetamido- o-(Acetylamino)phenol o-Acetamidophenol o-Acetaminophenol o-Acetylaminoferol o-hydroxyacetanilide
<b>Inchi:</b>	InChI=1S/C8H9NO2/c1-6(10)9-7-4-2-3-5-8(7)11/h2-5,11H,1H3,(H,9,10)
<b>InchiKey:</b>	ADVGKWPZRIDURE-UHFFFAOYSA-N
<b>Formula:</b>	C8H9NO2
<b>SMILES:</b>	CC(=O)Nc1ccccc1O
<b>Mol. weight [g/mol]:</b>	151.16
<b>CAS:</b>	614-80-2

## Physical Properties

Property code	Value	Unit	Source
gf	-65.26	kJ/mol	Joback Method
hf	-208.34	kJ/mol	Joback Method
hfus	23.00	kJ/mol	Joback Method
hvap	61.87	kJ/mol	Joback Method
ie	7.01 ± 0.02	eV	NIST Webbook
log10ws	-1.22		Crippen Method
logp	1.351		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	4890.21	kPa	Joback Method

tb	593.78	K	Joback Method
tc	827.84	K	Joback Method
tf	364.50 ± 0.20	K	NIST Webbook
vc	0.383	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.17	J/mol×K	593.78	Joback Method
cpg	290.67	J/mol×K	632.79	Joback Method
cpg	300.36	J/mol×K	671.80	Joback Method
cpg	309.33	J/mol×K	710.81	Joback Method
cpg	317.67	J/mol×K	749.82	Joback Method
cpg	325.46	J/mol×K	788.83	Joback Method
cpg	332.79	J/mol×K	827.84	Joback Method
cps	182.40	J/mol×K	298.00	NIST Webbook
hfust	21.25	kJ/mol	364.50	NIST Webbook
hfust	21.25	kJ/mol	364.50	NIST Webbook
hfust	21.25	kJ/mol	364.50	NIST Webbook
sfust	58.30	J/mol×K	364.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C614802&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C614802&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>Partial molar volumes of some drug and pro-drug substances in 1-octanol at 298.15 K:</b>	<a href="https://www.doi.org/10.1016/j.jct.2009.10.002">https://www.doi.org/10.1016/j.jct.2009.10.002</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>cps:</b>	Solid phase 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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/48-399-7/Acetamide-N-2-hydroxyphenyl.pdf>

Generated by Cheméo on 2024-04-27 03:12:16.414237516 +0000 UTC m=+16476785.334814827.

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