

# Benzoic acid, 4-amino-, hydrazide

<b>Other names:</b>	Benzoic acid, p-amino-, hydrazide p-Aminobenzhydrazide p-Aminobenzoic acid hydrazide p-Aminobenzoic hydrazide p-Aminobenzoyl hydrazide Amben hydrazide 4-Aminobenzhydrazide 4-Aminobenzoic acid hydrazide 4-Aminobenzoylhydrazine p-Amino benzoyl hydrazine para-Aminobenzhydrazide Aminostimil NSC 640 4-aminobenzohydrazide
<b>Inchi:</b>	InChI=1S/C7H9N3O/c8-6-3-1-5(2-4-6)7(11)10-9/h1-4H,8-9H2,(H,10,11)
<b>InchiKey:</b>	WPBZMCGPFHZRHJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H9N3O
<b>SMILES:</b>	<chem>NNC(=O)c1ccc(N)cc1</chem>
<b>Mol. weight [g/mol]:</b>	151.17
<b>CAS:</b>	5351-17-7

## Physical Properties

Property code	Value	Unit	Source
gf	204.21	kJ/mol	Joback Method
hf	45.72	kJ/mol	Joback Method
hfus	24.63	kJ/mol	Joback Method
hvap	68.58	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	-0.128		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	5220.69	kPa	Joback Method
tb	640.32	K	Joback Method
tc	884.69	K	Joback Method
tf	476.70	K	Joback Method
vc	0.418	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.53	J/mol×K	640.32	Joback Method
cpg	301.70	J/mol×K	681.05	Joback Method
cpg	311.08	J/mol×K	721.78	Joback Method
cpg	319.69	J/mol×K	762.50	Joback Method
cpg	327.57	J/mol×K	803.23	Joback Method
cpg	334.78	J/mol×K	843.96	Joback Method
cpg	341.34	J/mol×K	884.69	Joback Method

## Sources

<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=C5351177&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5351177&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>

## 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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