

# Aminosalicylic Acid

**Other names:** 2-Hydroxy-4-aminobenzoic acid  
3-Hydroxy-4-carboxyaniline  
4-ASA  
4-Amino-2-hydroxybenzoic acid  
4-Aminosalicylic acid  
A 1909  
Amino-pas  
Aminopar  
Aminox  
Apacil  
Apas  
Benzoic acid, 4-amino-2-hydroxy-  
Deapasil  
Entepas  
Ferrosan  
Gabbropas  
Hellipidyl  
Kyselina p-aminosalicylova  
NIH 2939  
NSC 2083  
Osacyl  
PAS  
PAS (acid)  
PAS-C  
PASK  
Pamacyl  
Pamisyl  
Paramycin  
Parasal  
Parasalicil  
Parasalindon  
Pasa  
Pasalon  
Pasara  
Pascorbic  
Pasdium  
Pasem  
Paser  
Pasmed  
Pasnodia

Pasolac  
Propasa  
Rezipas  
Salicylic acid, 4-amino-  
Sanipirol-4  
Sanipriol-4  
p-Aminosalicylic acid  
para-Amino salicylic acid  
para-Pas

**Inchi:** InChI=1S/C7H7NO3/c8-4-1-2-5(7(10)11)6(9)3-4/h1-3,9H,8H2,(H,10,11)  
**InchiKey:** WUBBRNOQWQTFEX-UHFFFAOYSA-N  
**Formula:** C7H7NO3  
**SMILES:** Nc1ccc(C(=O)O)c(O)c1  
**Mol. weight [g/mol]:** 153.14  
**CAS:** 65-49-6

## Physical Properties

Property code	Value	Unit	Source
gf	-243.07	kJ/mol	Joback Method
hf	-371.08	kJ/mol	Joback Method
hfus	24.21	kJ/mol	Joback Method
hvap	81.19	kJ/mol	Joback Method
log10ws	-2.01		Aqueous Solubility Prediction Method
logp	0.673		Crippen Method
mcvol	109.020	ml/mol	McGowan Method
pc	6796.39	kPa	Joback Method
tb	690.42	K	Joback Method
tc	918.13	K	Joback Method
tf	423.65	K	Aqueous Solubility Prediction Method
vc	0.340	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	277.00	J/molxK	690.42	Joback Method

cpg	283.98	J/mol×K	728.37	Joback Method
cpg	290.51	J/mol×K	766.32	Joback Method
cpg	296.65	J/mol×K	804.27	Joback Method
cpg	302.48	J/mol×K	842.23	Joback Method
cpg	308.08	J/mol×K	880.18	Joback Method
cpg	313.51	J/mol×K	918.13	Joback Method
hfust	47.90	kJ/mol	406.20	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C65496&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Solubility of 4-Aminosalicylic Acid in Supercritical Carbon Dioxide and Subcritical 1,1,1,2-Tetrafluoroethane:** <https://www.doi.org/10.1021/je5002736>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<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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