

# Mesalamine

<b>Other names:</b>	2-Hydroxy-5-aminobenzoic acid 5-ASA 5-Amino-2-hydroxybenzoic acid 5-Aminosalicylic acid Asacol Asacolitin Benzoic acid, 5-amino-2-hydroxy- Canasa Claversal Fisalamine Lialda Lixacol Mesalazine Mesasal NSC 38877 Pentasa Rowasa Salicylic acid, 5-amino- Salofalk m-Aminosalicylic acid p-Aminosalicylsaeure
<b>Inchi:</b>	InChI=1S/C7H7NO3/c8-4-1-2-6(9)5(3-4)7(10)11/h1-3,9H,8H2,(H,10,11)
<b>InchiKey:</b>	KBOPZPXVLCULAV-UHFFFAOYSA-N
<b>Formula:</b>	C7H7NO3
<b>SMILES:</b>	<chem>Nc1ccc(O)c(C(=O)O)c1</chem>
<b>Mol. weight [g/mol]:</b>	153.14
<b>CAS:</b>	89-57-6

## 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	-2.26		Aqueous and cosolvent solubility data for drug-like organic compounds

log10ws	-2.18		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	556.65	K	Aqueous Solubility Prediction Method
tf	554.15	K	Solubility of 5-Amino Salicylic Acid in Different Solvents at Various Temperatures
vc	0.340	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	308.08	J/molxK	880.18	Joback Method
cpg	277.00	J/molxK	690.42	Joback Method
cpg	283.98	J/molxK	728.37	Joback Method
cpg	290.51	J/molxK	766.32	Joback Method
cpg	296.65	J/molxK	804.27	Joback Method
cpg	302.48	J/molxK	842.23	Joback Method
cpg	313.51	J/molxK	918.13	Joback Method
hfust	67.20	kJ/mol	543.20	NIST Webbook

## Sources

**Aqueous and cosolvent solubility data for drug-like organic compounds:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C89576&Units=SI>

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

**Solubility of 5-Amino Salicylic Acid in Different Solvents at Various** <https://www.doi.org/10.1021/je900646u>

**Temperatures:** [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/AqueousDa>

# 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>hvac:</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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