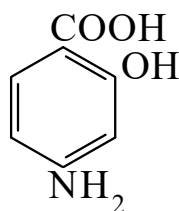




>>Entry Name: 4-Amino-2-hydroxybenzoic acid

Synonym(s): 4-Aminosalicylic acid. Aminosalicylic acid, USAN. Rezipas. Pamisyl. Propasa. PAS



CAS Registry Number: 65-49-6

Related CAS Registry Numbers(s): 133-09-5 133-15-3 528-96-1 537-20-2 5631-00-5

Molecular Formula: $C_7H_7NO_3$

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Use/Importance: Tuberculostatic, antibacterial, often administered as Na, K or Ca salt. Used as 10% aq. soln. of Na salt for photometric detn. of Fe(III) ($\lambda_{\max}$ 420 nm)

Physical Description: Needles or plates (EtOH/Et₂O)

Melting Point: Mp 147°. Mp 150-151 240° dec.°

pKa Value: pK_{a1} 2.05; pK_{a2} 3.66; pK_{a3} 13.74 (25°) pK_{a1} 1.78; pK_{a2} 3.63 (20°, 0.1M KCl)

Calculated Log P Data: Log P 1.06 (calc)

Hazard & Toxicity: Adverse gastrointestinal effects and hypersensitivity reactions reported when used therapeutically. Eye irritant. Low acute mammalian toxicity

Aldrich: A7960-4

Fluka: 9400

Sigma: A3380

>>Derivative: Na salt

Synonym(s): Aminosalicylate sodium, USAN. Pamisyl sodium

CAS Registry Number: 6018-19-5

Extra CAS Registry Numbers(s): 133-10-8

Use/Importance: Antibacterial agent (tuberculostatic)

Hazard & Toxicity: Exp. reprod. and teratogenic effects

Aldrich: 85654-1

Fluka: 9415

Sigma: A3505

>>Derivative: Ca salt

Synonym(s): Aminosalicylate calcium

CAS Registry Number: 6059-16-1

Use/Importance: Antibacterial agent (tuberculostatic)

Melting Point: Mp 133-153° (anhyd.)

>>Derivative: Compd. with isonicotinoylhydrazide

Synonym(s): Pasiniazid, INN. RD 328

CAS Registry Number: 2066-89-9

Molecular Formula: $C_{13}H_{14}N_4O_4$

Molecular Weight: 290.278

Accurate Mass: 290.101506

Percentage Composition: C 53.79%; H 4.86%; N 19.30%; O 22.05%

Use/Importance: Tuberculostatic

Physical Description: Yellow cryst. (MeOH)

Melting Point: Mp 142-144°

Sigma: I2637