



>>Entry Name: Cyanoacetohydrazide

Synonym(s): Cyanoacetic acid hydrazide, 9CI. **Cyacetacide**, INN. Cyacetazide, BAN. Cyanacethydrazide. Cyanazide. Cyazid

CAS Registry Number: 140-87-4

H2NNHCOCH2CN

Molecular Formula: C₃H₅N₃O

Molecular Weight: 99.092

Accurate Mass: 99.043262

Percentage Composition: C 36.36%; H 5.09%; N 42.41%; O 16.15%

Use/Importance: Formerly used as an antitubercular and an anthelmintic agent

Physical Description: Stout prisms (EtOH)

Melting Point: Mp 108-110°. Mp 114.5-115 evac. tube°

Solubility: V. sol. H₂O, EtOH, insol. Et₂O

pKa Value: pK_{a1} 2.47; pK_{a2} 11.04 (25°)

Calculated Log P Data: Log P -2.03 (calc)

Other Data: Rapidly dec. by heat

Hazard & Toxicity: LD₅₀ (mus, orl) 250 mg/kg

Aldrich: C8860-2

>>Derivative: Hydrochloride

Physical Description: Cryst.

Melting Point: Mp 145°

>>Derivative: N²-Ac

CAS Registry Number: 55819-76-6

Molecular Formula: C₅H₇N₃O₂

Molecular Weight: 141.129

Accurate Mass: 141.053827

Percentage Composition: C 42.55%; H 5.00%; N 29.77%; O 22.67%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 176-178°

Aldrich: 38024-5

References:

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