



Formula: C<sub>6</sub>H<sub>7</sub>N<sub>3</sub>O

MW: 137.14

CAS: 54-85-3

MDL NUMBER: MFCD00006426

IUPAC: pyridine-4-carbohydrazide

Smiles: C(=O)(c1ccncc1)NN

THERAPEUTIC CATEGORY: Antibacterial (Antituberculostatic)

VET THERAP CATEGORY: Antibacterial

REFERENCE: Merck, 13, 5205

ACCEPTORS: 1

DONORS: 3

ROTATION BONDS: 0

N+O: 4

Chiral Centers: 0

LogP: -1.12

LogS: -2.01

LIPINSKI: 4

Synonyms: 4-PYRIDINECARBOHYDRAZIDE;4-PYRIDINECARBOXYLIC ACID HYDRAZIDE;AKOS BBS-00004103;HYCOZID;LABOTEST-BB LT00146690;INAH;ISONICOTINIC ACID HYDRAZIDE;ISONIAZIDE

CAS:54-85-3

MF:C6H7N3O

MW:137.14

EINECS:200-214-6

Product Categories:AMIDE Isoniazid

Chemical Properties: mp 171-173 C(lit.) Fp >250C Water Solubility 14 g/100 mL (25 C) Sensitive Air Sensitive Merck 14,5186 BRN 119374 Stability:Stability Stable, but may be air or light sensitive. Combustible. Incompatible with strong oxidizing agents, chloral, aldehydes, iodine, ferric salts, hypochlorites.

CAS DataBase Reference: 54-85-3(

CAS DataBase Reference: ) NIST Chemistry ReferenceIsoniazid(54-85-3) EPA Substance Registry System4-Pyridinecarboxylic acid, hydrazide(54-85-3) Xn Risk Statements 22-38-40-36/37/38 Safety Statements 37-36/37/39-26 RIDADR 2811 WGK Germany 3 RTECS NS1751850 PackingGroup III HS Code 29333999 Hazardous Substances Data54-85-3(Hazardous Substances Data) INAH Isoniazid

Usage And Synthesis:

Chemical Properties: white crystalline powder General DescriptionOdorless colorless or white crystals or white crystalline powder. Taste is slightly sweet at first and then bitter. pH (1% aqueous solution) 5.5-6.5. pH (5% aqueous solution) 6-8. Air & Water ReactionsSensitive to air and light. Absorbs insignificant amounts of moisture at 77F at relative humidities up to approximately 90%. Water soluble. Dust can be explosive when suspended in air at specific concentrations. Reactivity ProfileIsoniazid is incompatible with chloral, aldehydes, iodine, hypochlorites and ferric salts. Isoniazid is also incompatible with oxidizers. Isoniazid may react with sugars and ketones. Isoniazid can react as a weak acid or a weak base. Isoniazid can be decomposed by oxidative and reductive reactions. Fire HazardIsoniazid is combustible. Isoniazid

