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TECHNICAL DATA SHEET

Phenyl Hydrazine Hydrochloride (Phenylhydrazine HCl)

CAS No: 59-88-1

PRODUCT DESCRIPTION

A high-purity hydrazine derivative (commonly known as Phenylhydrazine HCl, Phenylhydrazinium Chloride, or Hydrazinobenzene Hydrochloride) widely used as a key building block in pharmaceutical and agrochemical synthesis. Phenyl Hydrazine Hydrochloride is a critical reagent used in the synthesis of Carvedilol (a prominent beta-blocker), as well as various agrochemicals and dyes. Kalpasthana Life Care Products supplies this compound with guaranteed high purity (99%+) to ensure optimal yield in your downstream manufacturing.

SPECIFICATIONS

Product Name	Phenyl Hydrazine Hydrochloride
Synonyms / Abbreviations	Phenylhydrazine HCl, Hydrazinobenzene hydrochloride, Phenylhydrazinium chloride
CAS Number	59-88-1
Molecular Formula	C6H9ClN2
Molecular Weight	144.60 g/mol
Appearance	White to Off-white Crystalline Powder
Purity (Titration)	≥ 99.0%
Melting Point	243°C - 246°C (Dec.)

APPLICATIONS & USAGE

Phenyl Hydrazine Hydrochloride is a highly versatile aromatic hydrazine derivative. It is a legendary reagent for the Fischer Indole Synthesis, making it the primary starting material for the entire carbazole pathway of Carvedilol and Ondansetron. It is also widely used in synthesizing pyrazolone-based anti-inflammatory drugs, organic pigments, dyestuffs, agricultural fungicides, and as an analytical reagent for identifying sugars and carbonyl compounds.

- Carvedilol & Ondansetron Starting Material: Reacts with 1,3-cyclohexanedione to construct the tetrahydrocarbazolone ring for both APIs.
- Heterocyclic Reagent: A core reagent for synthesizing pyrazoles, indoles, and pyrazolones in pharmaceutical and agrochemical sectors.
- Analytical Characterization: Classic reagent for converting reducing sugars into crystalline osazones and identifying aldehydes/ketones.

DISCLAIMER & SAFETY

Disclaimer: *The information contained in this Technical Data Sheet is accurate to the best of our knowledge. It is provided for informational purposes only. The user assumes all risk and liability for the product's use in manufacturing or commercial applications. Products are intended for industrial manufacturing and laboratory research purposes only. Please refer to the Material Safety Data Sheet (MSDS) for detailed safety, handling, storage, and disposal guidelines.*

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