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TECHNICAL DATA SHEET

Product name: 3-Hydroxypyridine

Specifications

Parameters	Specifications	Typical results
Appearance	Beige To Brown Crystalline Powder	Complies
Identification By HPLC	The retention time of the principal peak obtained with the substance to be examined corresponds to that of reference standard	Complies
Moisture Content	NMT 0.5% w/w	0.24 %w/w
Purity by HPLC	NLT 98.0%	99.75%

Stability and storage:

It's recommended to store 3-hydroxypyridine in a cool, dry, and dark place (preferably below 15°C) to maintain its stability.
It should be kept away from incompatible substances like oxidizing agents, strong acids, strong bases, finely powdered metals, and acid chlorides.
It's important to use adequate ventilation to keep airborne concentrations low and prevent dust formation when handling the product
Keep away from incompatible materials such as acid chlorides, heavy metal salts, strong acids, strong bases, and strong oxidizing agents.

Application Areas:

3-Pyridinol and its derivatives have shown promise as active pharmaceutical ingredients or as precursors in the synthesis of other pharmaceuticals and agrochemicals.
It can be used as an intermediate in the synthesis of more complex molecules, like other pyridine derivatives or even molecules with more extended structures.
3-Pyridinol exhibits a range of biological activities, including potential antioxidant, antimicrobial, and antifungal properties. This makes it a candidate for drug development or as an additive in formulations for various therapeutic interventions.

General information

CAS No. : 109-00-2
IUPAC Name : 3-Hydroxy pyridine
Synonyms : 3-Pyridinol
EC No : 203-637-4

Physical/Chemical properties:

Molecular Formula : C5H5NO
Molecular weight : 95.1
Melting point : 125 - 127°C
Boiling Point : 180°C
Flash point : 173°C
Physical state at 20°C : Solid
Solubility : water, ethanol, methanol, acetone

Hazard classification & labelling:

Single Word : Warning

Pictogram :

Classification according to Regulation (EC) No 1272/2008: : H315-H319-H335

Precautionary statement(s) : P261,P264, P271,P280, P302+P352, P305+P351+P338