

# PYRIDINE HYDROBROMIDE



## PRODUCT IN FOCUS



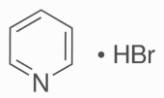
## Pyridine Hydrobromide

### INTRODUCTION

Pyridine hydrobromide is a white to off-white hygroscopic crystalline solid with melting point/freezing point of 216 °C to 219 °C. It is miscible in water. It is used in many chemical synthesis studies.

### Manufacture

It is manufactured by the reaction of pyridine with hydrogen bromide.

<b>Synonyms</b>	Pyridinium bromide
<b>CAS no.</b>	18820-82-1
<b>EINECS no.</b>	242-600-7
<b>Molecular formula</b>	$C_5H_6BrN$
<b>Molecular weight</b>	160.01
<b>Structure</b>	

### Applications

- Pyridine hydrobromide is used as an intermediate in the chemical industry for the manufacturing of active pharmaceutical ingredients like antibiotics, Cephalosporin & Cephalexin.
- Also used in Mouthwash (Oral care), Skin Cream (Cosmetic).
- It is quite useful for bromination of ketones.
- It is used as an electrolyte in the electrochemical cells. It has been shown to inhibit the activity of cytochrome P450 enzymes, which are important for the metabolism of xenobiotic compounds.
- Pyridine hydrobromide has also been shown to have synergistic effects with other drugs, such as sodium carbonate and l-arabinose, in inhibiting the growth of bacteria in vitro and in vivo.
- This compound is also able to form acid complexes with metal ions such as zinc and copper, which may be useful for therapeutic purposes where coordination geometry is important.

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### SPECIFICATIONS

Test	Unit	Specification
Description	-	White to off-white to pale brown crystalline powder, Hygroscopic. Faint odour of Pyridine
Identification (by Chemical)	-	Pale yellow precipitate should be formed
Solubility	-	Freely soluble in Methanol, Ethanol and Water
pH (5% solution)	w/v	2.0 - 3.0
Water (by KF)	%	NMT 0.2
Melting Point	°C	216 - 219
Free Pyridine	% w/w	NMT 0.3
Assay (by Titration)	%	99.0 - 101.0

### STORAGE

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store away from strong oxidizing agents, water, moisture.

### PACKING

50 kg HDPE drum.

### REACH Status

Not registered yet.

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