

# Proprietary Products – Advance Intermediates



Jubilant Life Sciences manufactures and markets Pyridine and its derivatives, which are used as advance intermediates by pharmaceutical, agrochemical and many other industries. Pyridine has certain chemical properties like receptiveness to chemical ions that makes it useful in a wide range of chemical reactions.

In the value chain of Pyridine derivatives, Jubilant offers Niacin and Niacinamide in all grades for pharma, cosmetics, food supplement and feed market.

The Company drives the advantage of excellent backward and forward integrated world scale plants that are ISO 9000, ISO 14001 and OHSAS 18001 certified.

The products are approved by more than 275 global pharma, agro and other industrial customers, who rely on the Company's consistent quality and service. Their trust and support has made Jubilant grow to the largest position in the world for Pyridine & its bases.

## Offerings

### Pyridine

Pyridine, a basic organic chemical, is a versatile building block and excellent solvent in agrochemical, pharmaceutical and other industries. It is completely soluble in water, alcohol, ether and benzene. It acts as an acid scavenger and can catalyze reactions. The major use of Pyridine is for conversion to bipyridyl compound for agrochemicals. Brominated, Chlorinated and Hydrogenated Pyridine and many other Pyridine derivatives are popular intermediates for many reactions.

### Major Applications

- Agrochemicals
- Pharmaceuticals
- Anti-dandruff Shampoos
- Photographic Chemicals
- Dyestuffs & Textiles
- Rubber Chemicals
- Metal Finishes
- Marine Paints
- Electronics

## Alpha Picoline

Alpha Picoline, also called 2-Picoline or 2-Methyl Pyridine, is a clear organic liquid. It is completely soluble in water, alcohol and ether.

### Major Applications

- 2-Vinyl Pyridine
- Agrochemicals
- Pharmaceuticals

## Beta Picoline

Beta Picoline, also called 3-Picoline or 3-Methyl Pyridine, is a clear organic liquid. It is completely soluble in water, alcohol and ether.

### Major Applications

- Vitamin B-3
- Agrochemicals
- Pharma Intermediates

## Gamma Picoline

Gamma Picoline, also called 4-Picoline or 4-Methyl Pyridine, is a clear organic liquid. It is completely soluble in water, alcohol and ether.

### Major Applications

- Pharmaceuticals
- Polymers
- Dyestuffs & Textiles

## 2-Cyanopyridine

2-Cyanopyridine, is a white to off-white solid at room temperature with almond like odour. It is derived from alpha picoline.

### Major Applications

- Agrochemicals
- Metal Plating
- Pharmaceuticals
- Precious Metal Recovery

## 3-Cyanopyridine

3-Cyanopyridine is a white crystalline solid. It is most commonly used for manufacture of Niacinamide & Niacin (Vitamin B-3). It is also used to manufacture 3 substituted Pyridine derivatives and industrial intermediates.

### Major Applications

- Vitamin B-3
- Pharmaceuticals
- Agrochemicals

## 4-Cyanopyridine

4-Cyanopyridine is a white to off-white solid at room temperature. It is derived from Gamma Picoline. It is mainly used in the manufacture of Isoniazid. It is also used to manufacture intermediates for pharmaceuticals and agrochemicals.

### Major Applications

- Pharmaceuticals
- Agrochemicals
- Polymers

## Piperidine

The major application of Piperidine is for production of Dipiperidinyl dithium tetrasulfide, which is used as a rubber vulcanisation accelerator.

### Major Applications

- Rubber vulcanisation
- Epoxy resins curing agent
- Agrochemicals
- Pharmaceuticals
- Dyes



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