

## PRODUCT IN FOCUS



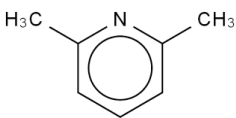
# 2,6-Lutidine

### INTRODUCTION

2,6-Lutidine is a liquid product and a semi-volatile compound naturally abundant in tobacco. Its main applications is as reagent in pharmaceuticals and as a solvent in chemical processes.

### Manufacture

It is produced by fractionation of crude pyridine base, which is in turn is obtained from coal tar. The co-products are alpha-picoline, gamma-picoline, and 3,4-lutidine. Another industrial process uses formaldehyde, acetone, and ammonia.

<b>Synonyms</b>	2,6-Dimethylpyridine alpha,alpha'-dimethylpyridine
<b>CAS no.</b>	108-48-5
<b>EINECS no.</b>	203-587-3
<b>Molecular formula</b>	C <sub>7</sub> H <sub>9</sub> N
<b>Molecular weight</b>	107.15
<b>Structure</b>	

### Applications in APIs

The dialkylated pyridine is a KRM for production of APIs:

- ✔ Clopidol – a veterinary medicine, used as coccidiostat.
- ✔ Cefpiramide acid – an antibiotic

### Applications in Intermediates

Amongst many others, the following intermediates are synthesized from 2,6-lutidine:

- ✔ 2,6-Dimethylpiperidine
- ✔ Dipicolinic acid
- ✔ 2,6-Dimethylpyridine-4-amine
- ✔ 2-Bromomethyl-6-methylpyridine
- ✔ 2,6-Dimethylpyridine-N-oxide

### Other Applications

- ✔ As a sterically hindered mild base in organic syntheses
- ✔ Used as food additive to impart nutty odor and flavor
- ✔ Acts as an accelerator in vulcanization processes employed in dyes, rubber, and resin industries



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### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Monophase clear colorless liquid with no foreign impurities
Solubility	-	Soluble in methanol and cold water
Boiling point	°C	144-145
Color	APHA	Max 20
Moisture by KF	%	Max 0.2
Identification by IR	-	IR spectrum of the sample to be concordant with standard spectrum
Purity by GC	%	Min 99.0

### STORAGE

The product is stored at ambient temperature.

### PACKING

190 kg UN-approved HDPE drum.

### REACH Status

Not registered yet.

ExSyn offers 2,6-lutidine on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.