

## IS 16112: 2013 Beta Picoline – Specification

Beta Picoline, also known as 3-picoline, is a nitrogen-containing heterocyclic compound with the molecular formula  $C_6H_7N$ . It is one of the five isomeric forms of picoline, distinguished by the position of the nitrogen atom in the pyridine ring. Beta picoline is primarily used as an intermediate in the production of a wide range of chemicals, including **agricultural products, pharmaceuticals, and food additives**. It is particularly valuable in the synthesis of pyridine derivatives and as a solvent in organic reactions.

Beyond its industrial uses, beta picoline has been studied for its potential biological activities. Research suggests it may possess **antioxidant properties** and could play a role in supporting certain metabolic processes. These findings have generated interest in its possible applications in health-related fields, though further research is needed to fully understand its biological effects.

However, despite its useful properties, beta picoline should be handled with care due to its potential to irritate the skin and respiratory system. Safety precautions are essential when working with this compound.

Indian standard **IS 16112** for beta picoline specify requirements for purity, including acceptable levels of impurities such as other picoline isomers, pyridine, and moisture content. Methods for sampling and testing these characteristics are also outlined to ensure the compound meets the necessary specifications for industrial and research applications.