IS 8050: 2018
Alpha Picoline Specification

Alpha Picoline (α-Picoline) is a **clear to yellow liquid** with a **strong characteristic odor**, fully miscible with **water** and various **organic solvents**. This versatile **methyl pyridine isomer** serves as a critical intermediate in the production of a wide array of compounds, including **picolinic acid**, **2-vinyl pyridine**, **2-pyridylethanol**, and **pyridine 2-aldehyde**. Its broad miscibility makes alpha picoline highly valuable in **pharmaceutical**, **agrochemical**, **latex manufacturing**, and **dyestuff industries**. It is especially important in the **synthesis of 2-vinylpyridine**, which is its largest single derivative.

Users expect **high-quality alpha picoline** with a high level of **purity**, controlled **boiling range**, and low **moisture content** to ensure performance across various applications. These parameters are crucial for stable, reliable results in **chemical manufacturing** and **industrial processes**.

The **Indian Standard IS 8050: 2018**, established by the **Bureau of Indian Standards (BIS)**, sets strict requirements to meet these user expectations, specifying the **purity, distillation range, and moisture limits** for alpha picoline. According to IS 8050, **alpha picoline content** should be a **minimum of 99% by mass**, ensuring the product's effectiveness as a chemical intermediate. The standard also defines a **boiling range** between **128.0 to 131.0°C** (at 760 mm Hg), where **2 to 97 percent by volume** of alpha picoline should distill, as well as a **maximum moisture content of 0.25% by mass** to maintain product stability.

Look for the **BIS Standard Mark** and compliance with **IS 8050: 2018** when purchasing alpha picoline, as this ensures the product's **quality, safety, and performance**. By following this standard, industries can trust alpha picoline's suitability for diverse applications in **chemical synthesis** and **manufacturing**.