

## IS 7686 : 2020

### Specification for 3 ( N, N-Diethyl ) Aminophenol

3 ( N, N-Diethyl ) Aminophenol is an organic compound with the chemical formula  $C_{10}H_{15}ON$ . It is a colourless liquid that is used as an intermediate in the production of dyes, pigments and pharmaceuticals. It is also used as a corrosion inhibitor, and as a component in electroplating and metal finishing processes.

For its applications, 3 ( N, N-Diethyl ) Aminophenol must be in the form of a white to light brown crystalline solid, soluble in various solvents like alcohol and hydrochloric acid, with a minimum crystallizing point of 69.5 °C and 98% purity.

IS 7686: 2020 prescribes the requirements and methods of sampling and test for 3-(N,N-Diethyl) aminophenol. The standard was originally published in 1975 and the standard was revised in 2020 to incorporate latest instrumental method using HPCL for more precise determination of purity and impurity profile. The key requirements for this product prescribed in the standard are crystallization point, purity, and salt content.

The standard also specifies acceptable packaging and marking requirements, and storage conditions, noting a shelf life of about three months. The criteria for conformity are also prescribed, based on which the product can be declared as conforming to the Indian Standard and can carry the BIS mark. Quality Control Order issued by Department of Chemicals and Petrochemicals (DCPC) mandates that this product can be sold, manufactured, or imported in India only under a valid BIS licence. Hence, this standard is a key reference for manufacturers and regulatory bodies ensuring quality control in the production and use of this dye intermediate.

**Keywords: Dye intermediate, purity, Quality Control Order, DCPC**