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***N,N*-Dimethyl-1-naphthylamine,**

$C_{12}H_{13}N$ 171.24 CAS RN[®]: 86-56-6.—Pale yellow to yellow, aromatic liquid. Soluble in alcohol and in ether.

Assay: Transfer about 250 mg, accurately weighed, to a suitable beaker, add 100 mL of glacial acetic acid, and dissolve by stirring. When solution is complete, titrate with 0.1 N perchloric acid VS, determining the endpoint potentiometrically. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N perchloric acid is equivalent to 17.12 mg of $C_{12}H_{13}N$. Not less than 98% is found.

REFRACTIVE INDEX (831): between 1.6210° and 1.6230° at 20°, sodium light being used.

Sulfanilamide Test: Dissolve 20 mg of [USP Sulfanilamide RS](#) in 100 mL of water to obtain the *Sulfanilamide solution*. Into two 150-mL beakers pipet 1.0 mL and 2.5 mL of the *Sulfanilamide solution*, respectively. Dilute with water to 90 mL. To provide a blank, place 90 mL of water in a third beaker. To each beaker add 8.0 mL of trichloroacetic acid solution (3 in 20) and 1.0 mL of sodium nitrite solution (1 in 1000). Stir the solutions for 5 minutes, then add 10 mL of acetate buffer TS, and 1.0 mL of a 1 in 1000 solution of *N,N*-dimethyl-1-naphthylamine in alcohol. The pH is about 5 to 6, using pH paper. Stir for an additional 5 minutes, then add 20 mL of glacial acetic acid. The pH is about 3 to 4, using pH paper. In comparison with the blank, the beaker containing 1.0 mL of the *Sulfanilamide solution* shows a pink color, while the other beaker shows a deep pink to red color.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
N,N-DIMETHYL-1-NAPHTHYLAMINE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

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