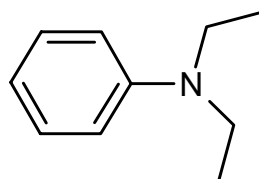


## N,N-DIETHYLANILINE

**SYNONYMS:** N,N-Diethylbenzeneamine

**STRUCTURE:**



**ABBREVIATION:** DEA

**DESCRIPTION:** Pale yellow clear liquid with amine odor.

**MOLECULAR WEIGHT:** 149

**EMPIRICAL FORMULA:** C<sub>10</sub>H<sub>15</sub>N

**CHEMICAL PROPERTIES:**

Can be halogenated, sulfonated, nitrated and nitrosated. Hydrogenation over Pd-catalyst yields N,N-diethylcyclohexane. Undergoes Friedel-Crafts reaction with oxalylchloride. Reacts with triethyl phosphite and tetrachloroformimide chloride to form mono- and biphosphonates. Reacts with propylene oxide to form N-hydroxypropyl-N-ethylaniline; reacts with cyanuric chloride. Undergoes the Menshutkin reaction. Its reaction with sulfaniamides yields herbicides.

**CAS REGISTRY NUMBER:** 91-66-7

**HS TARIFF NUMBER:** 2921.42

**PHYSICAL PROPERTIES:**

Melting Point:	-36.4°F/216.1°C
Boiling Point	421°F/85-91°C
Flash Point (PMCC):	185°F/85°C
Vapor Pressure (mmHg)	1 at 121°F/49.7°C
Vapor Density (air=1):	6.7 (approx.)
Specific Gravity:	0.935 (approx.)
Solubility:	Insoluble in water

**SPECIFICATIONS:**

Strength (by difference):	99.5% minimum
Aniline:	0.05% maximum
Water:	0.5% maximum
N-Ethylaniline:	0.3% maximum

**AVAILABILITY:** Commercial Quantities

**FOR ADDITIONAL INFORMATION AND HANDLING INSTRUCTIONS READ CYTEC INDUSTRIES INC. MATERIAL SAFETY DATA SHEET.**

**FOR YOUR PROTECTION**

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility or as an assumption of duty on our part. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information, products or vendors referred herein. NO WARRANTY OF FITNESS FOR A PRODUCT PURPOSE IS MADE.

Nothing herein is to be taken as permission, inducement Specifications. Statements herein, therefore, should not be construed as or recommendation to practice any patented invention without a license.

**TRADEMARK NOTICE**

The © indicates a Registered Trademark in the United States and the ™ or ® indicates a Trademark in the United States. The mark may also be registered, the

subject of an application for registration or a trademark in other countries.

**CYTEC INDUSTRIES INC.**

Intermediates & Stabilizers  
Five Garret Mountain Plaza  
West Paterson, New Jersey 07424