

HEXAMETHYLDISILAZANE (HMDS)



CAS Number: 999-97-3

Other Names: 1,1,1,3,3,3-hexamethyldisilazane; HMDS;
OAP; 1,1,1-trimethyl-N-(trimethylsilyl) Silaramine;
Bis(Trimethylsilyl)Amine

Formula: $C_6H_{19}NSi_2$

PRODUCT INTRODUCTION

Hexamethyldisilazane is an N-silyl compound obtained from ammonia by replacement of two of the hydrogens with trimethylsilyl groups. It appears as a clear colorless liquid. It is miscible with acetone, benzene, ethyl ether, heptane and perchloroethylene.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless Transparent Liquid
Assay	99.5 %
Silyl Ether	0.28
Water (ppm)	238
Chloride Ion (ppm)	3.81
Refractive Index	1.4070
Hazen	< 10

APPLICATIONS

- In photolithography, HMDS is often used as an adhesion promoter for photoresist.
- In electron microscopy, HMDS can be used as an alternative to critical point drying during sample preparation.
- In pyrolysis-gas chromatography-mass spectrometry, HMDS is added to the analyte to create silylated diagnostic products during pyrolysis, in order to enhance detectability of compounds with polar functional groups.
- The substance is used as a chemical intermediate in the production of siloxane polymers.

PACKAGING OPTIONS

Drums

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