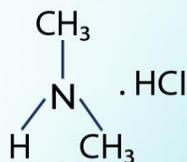


# DIMETHYLAMINE HYDROCHLORIDE



## PRODUCT IN FOCUS

**EXSYN**<sup>®</sup>  
ESSENTIAL CHEMISTRY

## Dimethylamine hydrochloride

### INTRODUCTION

Dimethylamine hydrochloride an organic chemical compound from the group of amines, is the simplest secondary aliphatic amine. It is a raw material for organic synthesis and a precursor to several industrially significant compounds.

### Manufacture

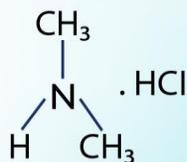
Dimethylamine hydrochloride is a salt formed by the reaction of dimethylamine and hydrochloric acid.

<b>Synonyms</b>	N,N-Dimethylamine hydrochloride Dimethylammonium chloride N-Methylmethanamine hydrochloride
<b>CAS no.</b>	506-59-2
<b>EINECS no.</b>	208-046-5
<b>Molecular formula</b>	C <sub>2</sub> H <sub>8</sub> ClN
<b>Molecular weight</b>	81.54
<b>Structure</b>	$\begin{array}{c} \text{CH}_3 \\   \\ \text{H}-\text{N} \\   \\ \text{CH}_3 \end{array} \cdot \text{HCl}$

### APPLICATIONS

- ❖ Dimethylamine hydrochloride is used as an intermediate in the manufacture of pharmaceuticals like Ranitidine, Metformin, Tramadol and Amlodipine.
- ❖ It is used as a precursor of Atrazine.
- ❖ It is associated with sodium acetate and used to carry out the Willgerodt-Kindler reaction to prepare amides.
- ❖ Its free base reacts with carbon disulfide to get dimethyl dithiocarbamate which is used in rubber vulcanization.
- ❖ It is involved in the synthesis of dimethyl-(1-methyl-pyrrol-2-ylmethyl)-amine by reacting with 1-methyl pyrrole and formaldehyde.
- ❖ Used as a rubber accelerator and in leather tanning
- ❖ Used as a catalyst for polymerization reactions, epoxy monomer for paints-coatings-thinners and polymers.
- ❖ It has also been used to prepare the standard solution of methylamine (MA), dimethylamine (DMA), trimethylamine (TMA), and trimethylamine-N-oxide (TMAO) while determining methylamines and trimethylamine-N-oxide in particulate matter.

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### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White, hygroscopic crystals
Moisture (by KF)	%	NMT 1.0
Solubility	-	Freely soluble in water, clear colorless liquid with no foreign bodies
pH (5% solution)	-	5.5 – 6.5
Melting Point	°C	169 – 171
Sulphated Ash	%	NMT 0.1
Assay	%	NLT 99.0

### PACKING

25 kg HDPE bag.

### STORAGE

Store under shade at ambient temperature & dry conditions in well-sealed containers.

### REACH Status

Not registered yet.

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.