

# 2-METHYLIMIDAZOLE

## PRODUCT IN FOCUS



## 2-Methylimidazole

### INTRODUCTION

2-Methylimidazole is a monomethylated imidazole that can be used as a building block in synthesis of a wide range of biologically active compounds. Synthesized through Radziszewski reaction involving acetaldehyde, glyoxal, and ammonia, it is a sterically hindered imidazole that is used to simulate the coordination of histidine to heme complexes. It is highly soluble in polar organic solvents and water.

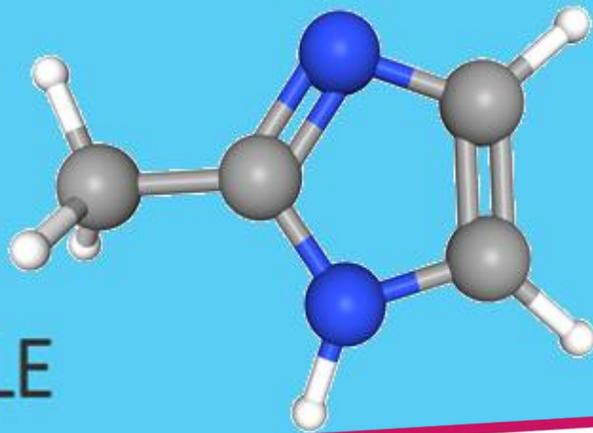
It can be deprotonated to make imidazolate-based coordination polymers. It is a precursor to a range of drugs and is a ligand in coordination chemistry.

<b>Synonyms</b>	2-Methyl-1H-imidazole; 2-Melm; 2-Methylglyoxaline
<b>CAS no.</b>	693-98-1
<b>EINECS no.</b>	211-765-7
<b>Molecular formula</b>	C <sub>4</sub> H <sub>6</sub> N <sub>2</sub>
<b>Molecular weight</b>	82.10
<b>Structure</b>	

### Applications

- Ⓢ 2-Methylimidazole is used as a raw material for preparation of nitroimidazole antibiotics, which are useful in combating anaerobic bacterial and parasitic infections.
- Ⓢ It is used as an active pharmaceutical ingredient intermediate such as metronidazole and fodder growth promoter dimetridazole.
- Ⓢ As an intermediate for producing pranti-trichomonal pesticides.
- Ⓢ It is employed as a hardener or accelerator for epoxy resin and auxiliary agent for textile dyes.
- Ⓢ Widely used as a polymerization cross-linking accelerator and a hardener for epoxy resin systems for semiconductor potting compounds and soldering masks.
- Ⓢ It is a component of numerous polymers, including acrylic rubber - fluororubber laminates, and epoxy silane coatings.
- Ⓢ Used as additives for the preparation of foam plastics.
- Ⓢ As a catalyst for refolding of enhanced colored fluorescent protein.
- Ⓢ In synthesis of 1-benzyl-2-methylimidazole & 2-methyl-4-nitroimidazole.

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### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White crystals
Purity (by GC)	%	Min 99.0
Melting Point	°C	142.0 - 146.0
Water (by KF)	%	Max 0.50

### STORAGE

Product is stored at ambient temperature.

### PACKING

25 kg Fibre Drums.

2-Methylimidazole offered by ExSyn is available on commercial scale. 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 get in touch with us.