

PRODUCT IN FOCUS



4-Methoxypyridine

INTRODUCTION

4-Methoxypyridine, a molecule with ether function, is a reactive base. Its nitrogen atom is activated by the methoxy group. It renders the molecule active and thus 4-methoxypyridine participates in many chemical processes. Its uses are in intermediates, in synthesis of biologically active moieties, and in proteomic research.

Manufacture

The compound is produced by ether formation reaction between methanol and 4-bromopyridine. Alternative synthesis route is catalytic hydrogenation of 4-methoxypyridine-N-oxide.

Synonyms	p-Methoxypyridine Methyl pyridin-4-yl ether
CAS no.	620-08-6
EINECS no.	210-624-7
Molecular formula	C ₆ H ₇ NO
Molecular weight	109.13
Structure	

Applications in Proteins

In proteomic research, 4-methoxypyridine is used in synthesis of benzoylated N-ylides, which in turn act as protein farnesyltransferase inhibitor.

Applications in Intermediates

Amongst few others, the following intermediates are manufactured from 4-methoxypyridine:

- ✔ (4-methoxypyridin-3-yl)trimethylsilane
- ✔ 2-Iodo-3-methoxypyridine
- ✔ 4-Methoxy-3-(trimethylstannyl)pyridine
- ✔ 2-Bromo-6-methoxypyridine
- ✔ 2-Bromo-4-methoxy-3-pyridinamine
- ✔ 4-Methoxypiperidine

Other Applications

- ✔ As building block for synthesis of some biologically active compounds
- ✔ Its o-lithiated derivative used as metalating base in synthetic chemistry
- ✔ As a starting reagent for stereo-controlled synthesis of (±)-pumiliotoxin C and (±)-lasubine II
- ✔ In efficient construction of dihydropyridin-4-ones, which in turn serve as potential ligands for neuronal nicotinic acetylcholine receptors
- ✔ As flavoring agent in food



4-METHOXYPYRIDINE

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Clear colorless to pale yellow liquid
Moisture by KF	%	Max 0.5
Purity by GC	%	Min 97

STORAGE

The product is stored at ambient temperature.

PACKING

180 kg Composite drum.

REACH Status

Not registered yet.

ExSyn offers 4-Methoxypyridine on commercial scales and welcomes enquiries. 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.