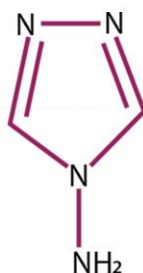


4-AMINO-1,2,4-TRIAZOLE



PRODUCT IN FOCUS



4-Amino-1,2,4-triazole

INTRODUCTION

4-Amino-1,2,4-triazole is an organic solid belonging to the heterocyclic category of compounds. By virtue of presence of 3 nitrogen atoms, the molecule is biologically active and thus acts as antimicrobial and antifungal agent.

Manufacture

It is manufactured by Schmidt reaction in which hydrazine reacts with an aromatic nitrile in aqueous solution to form 4-amino-1,2,4-triazole.

Applications

APIs

- Carvedilol, an antihypertensive drug
- Ondansetron, serotonin 5-HT₃ receptor antagonist

Intermediates

- 1-(4-Nitrophenyl)methyl-1,2,4-triazole
- 4-Amino-1,2,4-triazole HCl
- 6,8-Dimethyl[1,2,4]triazolo[4,3-*b*]pyridazine

Agrochemicals

- Flucanazole, a fungicide

Others

- Preparation of potent, selective, and orally active cyclooxygenase-2 inhibitor
- Determination of tryptophan in proteins
- In FTIR spectroscopy to distinguish between various N atoms based on their vibrational frequencies

Synonym 4H-1,2,4-triazol-4-amine
4-Amino-4H-1,2,4-triazole

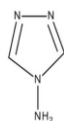
CAS no. 584-13-4

EINECS no. 209-533-5

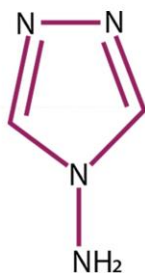
Molecular formula C₂H₄N₄

Molecular weight 84.08

Structure



4-AMINO-1,2,4-TRIAZOLE



PRODUCT IN FOCUS



SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	White to off-white crystalline, hygroscopic powder
Solubility	-	Soluble in methanol and water
Melting range	°C	79 – 87
Moisture	%	Max 0.50
Assay (on anhydrous basis)	% w/w	Min 99.00

STORAGE

Stored at ambient temperature

PACKING

40 kg HDPE drum

REACH Status

Not registered

ExSyn offers 4-amino-1,2,4-triazole 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.