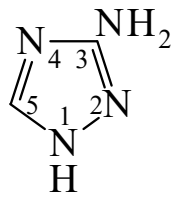
>>**Entry Name: 3(5)-Amino-1,2,4-triazole**
Synonym(s): 1*H*-1,2,4-Triazol-3-amine, 9CI. Amizol. Amitrole, ANSI, BSI, ISO, WSSA. Aminotriazole. ATA, JMAF. Weedazol



CAS Registry Number: 61-82-5

Molecular Formula: $C_2H_4N_4$
Molecular Weight: 84.08
Accurate Mass: 84.043596
Percentage Composition: C 28.57%; H 4.79%; N 66.63%
Use/Importance: Non-selective herbicide. Used for detn. of tryptophan in proteins
Physical Description: Cryst. (H_2O, EtOH or EtOAc)
Melting Point: Mp 159°
pKa Value: pK_{a1} 4.04; pK_{a2} 11.08 (20°)
Hazard & Toxicity: Possible human carcinogen. LD_{50} (rat, orl) 1100 mg/kg. Exp. carcinogen. Exp. reprod. and teratogenic effects

Aldrich: A8160-9
Fluka: 9540
Sigma: A4383

>>**Derivative:** Hydrochloride

Physical Description: Cryst. (EtOH)
Melting Point: Mp 153°

>>**Derivative:** 3-*N*-Ac

CAS Registry Number: 5295-23-8
Molecular Formula: $C_4H_6N_4O$
Molecular Weight: 126.118
Accurate Mass: 126.054161
Percentage Composition: C 38.09%; H 4.80%; N 44.42%; O 12.69%
Melting Point: Mp 295-300 dec.°

Rare Chemicals Library: S56577-6

>>**Derivative:** 3-*N*-(2-Hydroxybenzoyl)
Synonym(s): 2-Hydroxy-*N*-1*H*-1,2,4-triazol-3-ylbenzamide, 9CI. 3-Salicylamido-1,2,4-triazole

CAS Registry Number: 36411-52-6
Molecular Formula: $C_9H_8N_4O_2$
Molecular Weight: 204.188
Accurate Mass: 204.064726
Percentage Composition: C 52.94%; H 3.95%; N 27.44%; O 15.67%
Use/Importance: Antioxidant for polymers, esp. polypropylene in the presence of Cu

>>**Variant:** 1*H*-form

Molecular Formula: $C_2H_4N_4$
Molecular Weight: 84.08
Accurate Mass: 84.043596
Percentage Composition: C 28.57%; H 4.79%; N 66.63%

>>**Derivative:** 1-Ph
Synonym(s): 3-Amino-1-phenyl-1,2,4-triazole. 1-Phenyl-1*H*-1,2,4-triazol-3-amine

Molecular Formula: $C_8H_8N_4$
Molecular Weight: 160.178
Accurate Mass: 160.074896
Percentage Composition: C 59.99%; H 5.03%; N 34.98%
Physical Description: Cryst. (H_2O)
Melting Point: Mp 150°