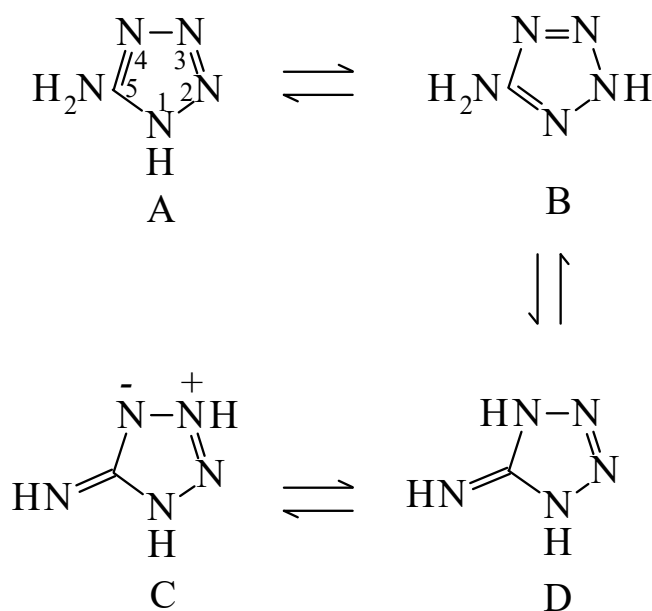




>>Entry Name: 5-Aminotetrazole

Synonym(s): 1*H*-Tetrazol-5-amine, 9CI



CAS Registry Number: 4418-61-5

Related CAS Registry Numbers(s): 24153-35-3

Molecular Formula: CH₃N₅

Molecular Weight: 85.068

Accurate Mass: 85.038845

Percentage Composition: C 14.12%; H 3.55%; N 82.33%

Physical Description: Cryst.

Melting Point: Mp 206 dec.°

pKa Value: pK_a 1.68

Hazard & Toxicity: Diazotised mixtures unstable and potentially explosive. LD₅₀ (mus, ipr) 2500 mg/kg

Aldrich: A8060-2

Fluka: 9470

Sigma: A4023

>>Derivative: Monohydrate

CAS Registry Number: 15454-54-3

Physical Description: Prisms (H₂O)

Melting Point: Mp 200-204° (199°)

>>Derivative: Nitrate

Physical Description: Cryst. (H₂O)

Melting Point: Mp 178-179 (174°) dec.°

>>Variant: 1*H*-Amino-(A)-form

Molecular Formula: CH₃N₅

Molecular Weight: 85.068

Accurate Mass: 85.038845

Percentage Composition: C 14.12%; H 3.55%; N 82.33%

Other Data: Major tautomeric form

>>Derivative: 1-Me

Synonym(s): 5-Amino-1-methyl-1*H*-tetrazole

CAS Registry Number: 5422-44-6

Molecular Formula: C₂H₅N₅

Molecular Weight: 99.095

Accurate Mass: 99.054495

Percentage Composition: C 24.24%; H 5.09%; N 70.67%

Physical Description: Needles (H₂O or CHCl₃)

Melting Point: Mp 226° (220-223°)

Rare Chemicals Library: S1474-6