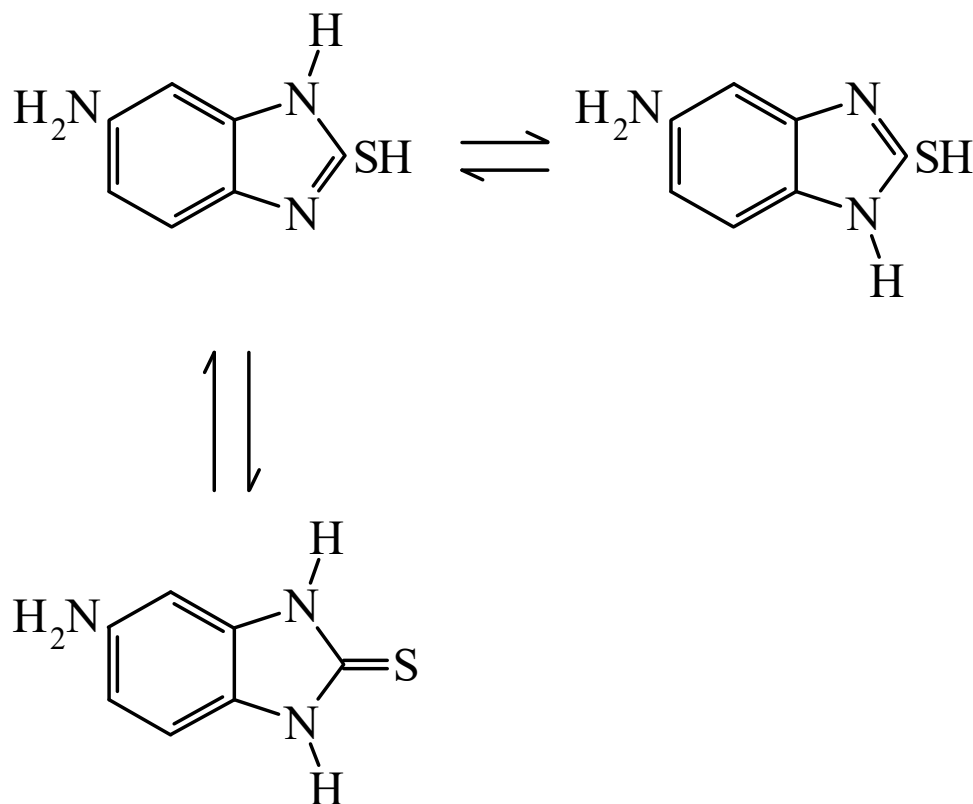




>>Entry Name: 5-Amino-2-benzimidazolethiol, 8Cl

Synonym(s): 5-Amino-1,3-dihydro-2*H*-benzimidazole-2-thione, 9Cl. 5-Amino-2-mercaptobenzimidazole



CAS Registry Number: 2818-66-8

Molecular Formula: C₇H₇N₃S

Molecular Weight: 165.218

Accurate Mass: 165.036067

Percentage Composition: C 50.89%; H 4.27%; N 25.43%; S 19.41%

Use/Importance: Used as 0.5% soln. in dil. AcOH in photometric detn. of Rh, Pd

Physical Description: Cryst.

Melting Point: Mp 280 dec.°

Solubility: Sol. alkalis, acids, EtOH; insol. H₂O

>>Derivative: Hydrochloride

Physical Description: Cryst. (H₂O)

Melting Point: Mp 220°

References:

James, A.T. *et al.*, *J.C.S.*, 1950, 1515, (*synth*)

Sen Gupta, J.G., *Talanta*, 1961, **8**, 729; 785, (*use*)