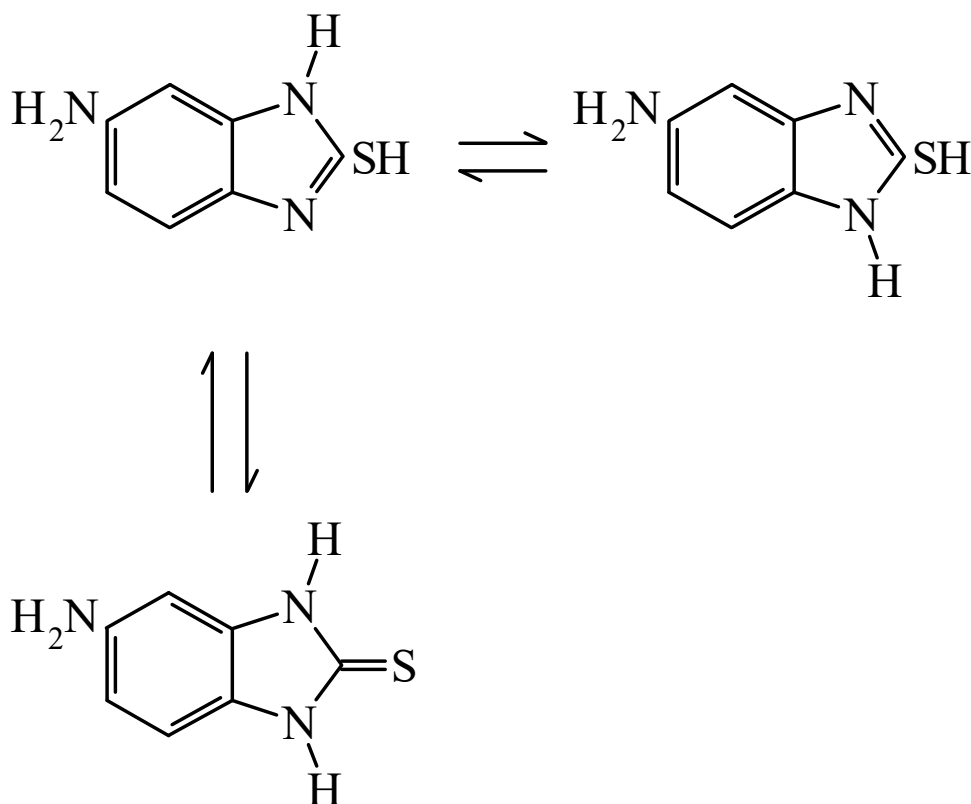




>>Entry Name: 5-Amino-2-benzimidazolethiol, sct
Synonym(s): 5-Amino-1,3-dihydro-2H-benzimidazole-2-thione, ac; 5-Amino-2-mercaptobenzimidazole



CAS Registry Number: 2818-66-8

Molecular Formula: C₇H₇N₃S
Molecular Weight: 165.218
Accurate Mass: 165.03667
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.^o
Stability: Sol. alkalis, acids, EtOH; insol. H₂O

>>Derivative: Hydrochloride

Physical Description: Cryst. (H₂O)
Melting Point: Mp 220^o

References:
James, A.T. *et al.*, *J.C.S.*, 1950, 1515, (*synth*)
Sen Gupta, J.G., *Talanta*, 1961, 8, 729; 785, (*rev*)