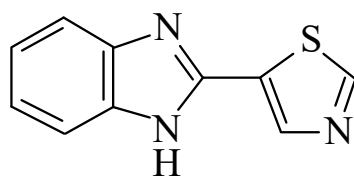




>>Entry Name: 2-(4-Thiazolyl)-1*H*-benzimidazole, 9CI

ENTRY UNDER REVIEW

Synonym(s): Thiabendazole, BAN, BSI, ISO, JMAF, USAN. Tiabendazole, INN. Mintezol. Thiprazole. Equizole. Thiabendole. Thibendole. Thibenzole. TBZ. Mertect. Tecto. Storite. Many other names



CAS Registry Number: 148-79-8

Related CAS Registry Numbers(s): 50933-50-1

Molecular Formula: C₁₀H₇N₃S

Molecular Weight: 201.251

Accurate Mass: 201.036067

Percentage Composition: C 59.68%; H 3.51%; N 20.88%; S 15.93%

Use/Importance: Anthelmintic, pre- and postharvest fungicide, also freq. for vet. use. Used as a postharvest treatment for bananas, plantains and oranges. Registered in Canada for control of silver scurf in stored potatoes. Good chelating agent. Inhibits the rate of NADH oxidation.

Melting Point: Mp 304-305°

Calculated Log P Data: Log P 2.34 (calc)

Other Data: Component of Ranizole

Hazard & Toxicity: Shows teratogenic activity in mice. LD₅₀ (rat, orl) 3100 mg/kg. Exp. teratogen. Exp. nephrotoxic effects

Aldrich: 28951-5

Rare Chemicals Library: S55103-1

Sigma: T5535

>>Derivative: Benzoyl

Molecular Formula: C₁₇H₁₁N₃OS

Molecular Weight: 305.359

Accurate Mass: 305.062282

Percentage Composition: C 66.87%; H 3.63%; N 13.76%; O 5.24%; S 10.50%

Melting Point: Mp 147°

>>Derivative: 1-*N*-Me

CAS Registry Number: 32594-70-0

Molecular Formula: C₁₁H₉N₃S

Molecular Weight: 215.278

Accurate Mass: 215.051717

Percentage Composition: C 61.37%; H 4.21%; N 19.52%; S 14.90%

Melting Point: Mp 139-140°

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