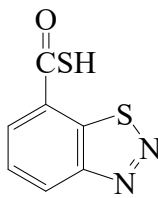




>>Entry Name: 1,2,3-Benzothiadiazole-7-carbothioic acid, 9CI

Synonym(s): Acibenzolar



CAS Registry Number: 126448-41-7

Molecular Formula: $C_7H_4N_2OS_2$

Molecular Weight: 196.253

Accurate Mass: 195.976503

Percentage Composition: C 42.84%; H 2.05%; N 14.27%; O 8.15%; S 32.68%

>>Derivative: S-Me ester

Synonym(s): Acibenzolar-S-methyl, BSI. CGA 245704

CAS Registry Number: 135158-54-2

Molecular Formula: $C_8H_6N_2OS_2$

Molecular Weight: 210.28

Accurate Mass: 209.992153

Percentage Composition: C 45.70%; H 2.88%; N 13.32%; O 7.61%; S 30.50%

Biological Use/Importance: Used against fungal infections. Activates the plant's natural defence mechanism

Physical Description: Powder

Melting Point: Mp 133°

Hazard & Toxicity: LD₅₀ (rat, orl) >2000 mg/kg

References:

Eur. Pat., 1991, *Ciba-Geigy*, 420 803; *CA*, **115**, 71613f, (*synth, activity*)

Ruess, W. *et al.*, *Brighton Crop Prot. Conf. - Pests Dis.*, 1996, 53-60, (*activity*)

Kessmann, H. *et al.*, *Brighton Crop Prot. Conf. - Pests Dis.*, 1996, 961-966, (*rev*)

Goerlach, J. *et al.*, *Plant Cell*, 1996, **8**, 629-643, (*activity*)

Friedrich, L. *et al.*, *Plant J.*, 1996, **10**, 61-70, (*activity*)

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