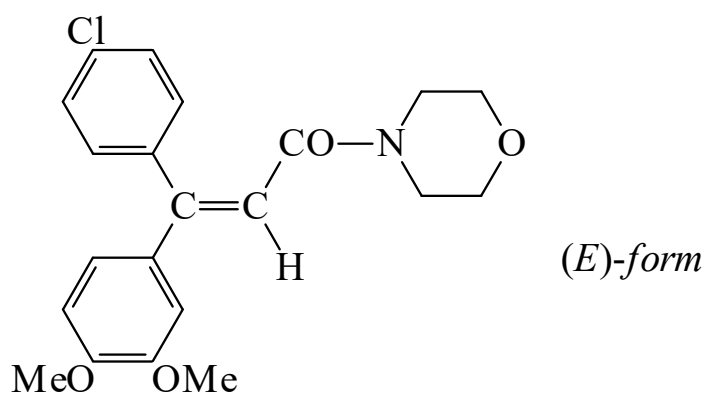




>>Entry Name: Dimethomorph, BSI

Synonym(s): 4-[3-(4-Chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine, 9CI. 4-[3-(4-Chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl]morpholine. Forum. CAE-151



CAS Registry Number: 110488-70-5

Molecular Formula: C₂₁H₂₂ClNO₄

Molecular Weight: 387.862

Accurate Mass: 387.123736

Percentage Composition: C 65.03%; H 5.72%; Cl 9.14%; N 3.61%; O 16.50%

Use/Importance: Fungicide

Hazard & Toxicity: LD₅₀ (rat, oral) 3900 mg/kg

>>Variant: (E)-form

CAS Registry Number: 113210-97-2

Molecular Formula: C₂₁H₂₂ClNO₄

Molecular Weight: 387.862

Accurate Mass: 387.123736

Percentage Composition: C 65.03%; H 5.72%; Cl 9.14%; N 3.61%; O 16.50%

Physical Description: Cryst.

Melting Point: Mp 135.7-137.5°

>>Variant: (Z)-form

CAS Registry Number: 113210-98-3

Molecular Formula: C₂₁H₂₂ClNO₄

Molecular Weight: 387.862

Accurate Mass: 387.123736

Percentage Composition: C 65.03%; H 5.72%; Cl 9.14%; N 3.61%; O 16.50%

Use/Importance: Active isomer

Physical Description: Cryst.

Melting Point: Mp 169.2-170.2°

References:

Ger. Pat., 1987, 3 615 448; *CA*, **108**, 167115b, (*synth*)

Marks, G.C. *et al.*, *Aust. J. Exp. Agric.*, 1990, **30**, 139, (*activity*)

Pesticide Manual, 9th edn., 1991, 296