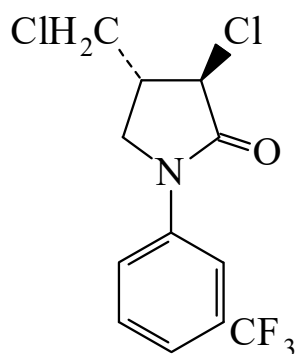




>>Entry Name: Flurochloridone, BSI, WSSA

Synonym(s): 3-Chloro-4-(chloromethyl)-1-[3-(trifluoromethyl)phenyl]-2-pyrrolidinone, 9Cl. 3-Chloro-4-chloromethyl-1-(α,α,α -trifluoro-*m*-tolyl)-2-pyrrolidone. Racer. R-40244



(3*RS*,4*RS*)-form

CAS Registry Number: 61213-25-0

Molecular Formula: C₁₂H₁₀Cl₂F₃NO

Molecular Weight: 312.118

Accurate Mass: 311.009152

Percentage Composition: C 46.18%; H 3.23%; Cl 22.72%; F 18.26%; N 4.49%; O 5.13%

Use/Importance: Herbicide. Carotenoid synth. inhibitor

Other Data: Commercial name applies to diastereoisomer mixt.

Hazard & Toxicity: LD₅₀ (rat, orl) 4000 mg/kg

>>Variant: (3*RS*,4*RS*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 61213-60-3

Molecular Formula: C₁₂H₁₀Cl₂F₃NO

Molecular Weight: 312.118

Accurate Mass: 311.009152

Percentage Composition: C 46.18%; H 3.23%; Cl 22.72%; F 18.26%; N 4.49%; O 5.13%

Physical Description: Plates (MeOH)

Melting Point: Mp 80-81°

>>Variant: (3*RS*,4*SR*)-form

Synonym(s): (±)-*cis*-form

CAS Registry Number: 61213-59-0

Molecular Formula: C₁₂H₁₀Cl₂F₃NO

Molecular Weight: 312.118

Accurate Mass: 311.009152

Percentage Composition: C 46.18%; H 3.23%; Cl 22.72%; F 18.26%; N 4.49%; O 5.13%

Physical Description: V. small cryst. (CS₂)

Melting Point: Mp 54-55°

References:

Devlin, R.M. *et al.*, *Weed Res.*, 1979, **19**, 59, (*activity*)

Tseng, C.K. *et al.*, *J.O.C.*, 1983, **48**, 3564, (*synth, pmr, cryst struct*)

Lay, M.M. *et al.*, *Pestic. Biochem. Physiol.*, 1983, **19**, 337, (*activity*)

Tseng, C.K. *et al.*, *Synth. Commun.*, 1984, **14**, 1027, (*synth, pmr, ir*)

Pesticide Manual, 9th edn., 1991, No. 6645