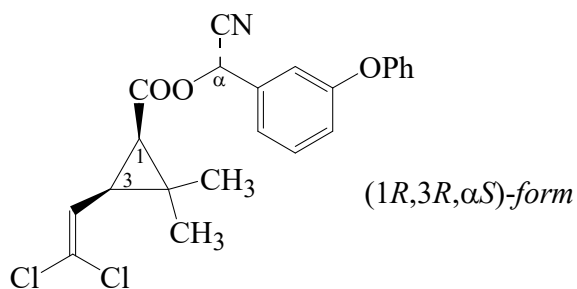




>>>**Entry Name:** Cypermethrin, ANSI, BAN, BSI, ISO

Synonym(s): Cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate, 9Cl. α -Cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate. Ripcord. Barricade. Cymbush. Imperator. Kafil. Cypor. Cyperil. Cyperkill. **Ambush**‡. Agrothrin. NRCC 149. Ardap. Chinmix. Basathrin. Nurele. Ammo. Ambush C. Cymperator. Ectomin



CAS Registry Number: 52315-07-8

Related CAS Registry Numbers(s): 65731-83-1 65732-07-2 66290-20-8 66290-21-9 66841-24-5 70982-01-3 70982-02-4 71697-59-1 72204-43-4 72204-44-5

Molecular Formula: C₂₂H₁₉Cl₂NO₃

Molecular Weight: 416.302

Accurate Mass: 415.074198

Percentage Composition: C 63.47%; H 4.60%; Cl 17.03%; N 3.36%; O 11.53%

General Statement: Freq. employed as mixts. of stereoisomers of varying composition. Some prods. are isomerically enriched

Use/Importance: Insecticide

Physical Description: Viscous yellowish-brown semisolid mass (tech. product)

Solubility: V. spar. sol. H₂O; sol. most org. solvs.

Hazard & Toxicity: LD₅₀ (rat, orl) 251-4123 mg/kg; LD₅₀ (rat, orl) 70 mg/kg; LD₅₀ (rat, skn) 1600 mg/kg. Exp. reprod. and teratogenic effects. Exp. neurotoxic effects

>>>**Variant:** (1*R*,3*R*, α *S*)-form

Synonym(s): NRDC 182

CAS Registry Number: 65731-84-2

Molecular Formula: C₂₂H₁₉Cl₂NO₃

Molecular Weight: 416.302

Accurate Mass: 415.074198

Percentage Composition: C 63.47%; H 4.60%; Cl 17.03%; N 3.36%; O 11.53%

Melting Point: Mp 53-55°

Optical Rotation: [α]_D +30.25 (c, 1 in CHCl₃) (c, 1 in hexane)

>>>**Variant:** (1*R*,3*S*, α *R*)-form

Synonym(s): (–)-*trans*-Cypermethrin β

CAS Registry Number: 66841-24-5

Molecular Formula: C₂₂H₁₉Cl₂NO₃

Molecular Weight: 416.302

Accurate Mass: 415.074198

Percentage Composition: C 63.47%; H 4.60%; Cl 17.03%; N 3.36%; O 11.53%

Optical Rotation: [α]_D²⁴ –16.4 (c, 0.70 in CHCl₃)

>>>**Variant:** (1*R*,3*S*, α *S*)-form

Synonym(s): (–)-*trans*-Cypermethrin α

CAS Registry Number: 65732-07-2

Molecular Formula: C₂₂H₁₉Cl₂NO₃

Molecular Weight: 416.302

Accurate Mass: 415.074198

Percentage Composition: C 63.47%; H 4.60%; Cl 17.03%; N 3.36%; O 11.53%

Optical Rotation: [α]_D²⁴ –5.6 (c, 0.87 in CHCl₃)