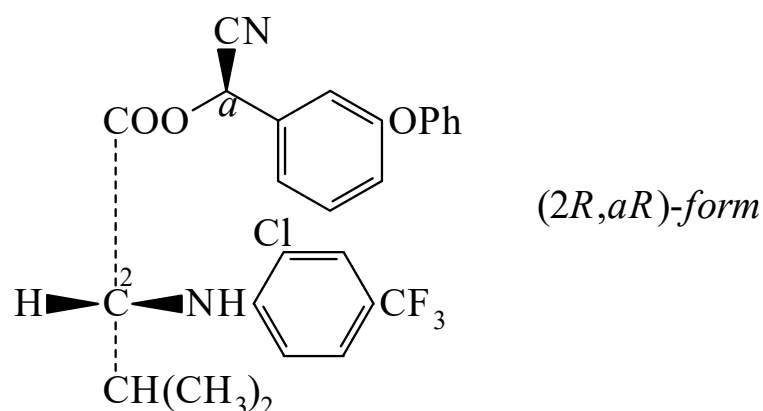




>>Entry Name: Fluvalinate, ANSI, BSI, ISO

Synonym(s): Cyano(3-phenoxyphenyl)methyl *N*-[2-chloro-4-(trifluoromethyl)phenyl]valinate, 9Cl. α -Cyano-3-phenoxybenzyl 2-[(2-chloro-4-trifluoromethyl)anilino]-3-methylbutanoate. α -Cyano-3-phenoxybenzyl *N*-(2-chloro- α,α,α -trifluoro-*p*-tolyl)valinate. Mavrik



CAS Registry Number: 69409-94-5

Related CAS Registry Numbers(s): 76821-60-8 98919-83-6

Molecular Formula: C₂₆H₂₂ClF₃N₂O₃

Molecular Weight: 502.919

Accurate Mass: 502.127104

Percentage Composition: C 62.09%; H 4.41%; Cl 7.05%; F 11.33%; N 5.57%; O 9.54%

>>Variant: (2*R*, α *R*)-form

CAS Registry Number: 76821-52-8

Molecular Formula: C₂₆H₂₂ClF₃N₂O₃

Molecular Weight: 502.919

Accurate Mass: 502.127104

Percentage Composition: C 62.09%; H 4.41%; Cl 7.05%; F 11.33%; N 5.57%; O 9.54%

Optical Rotation: $[\alpha]_D^{25} +0.2$ (c, 2.6 in CHCl₃)

>>Variant: (2*R*, α *S*)-form

CAS Registry Number: 76821-53-9

Molecular Formula: C₂₆H₂₂ClF₃N₂O₃

Molecular Weight: 502.919

Accurate Mass: 502.127104

Percentage Composition: C 62.09%; H 4.41%; Cl 7.05%; F 11.33%; N 5.57%; O 9.54%

Optical Rotation: $[\alpha]_D^{25} +46.3$ (c, 0.85 in CHCl₃)

Other Data: Most active isomer

>>Variant: (2*S*, α *R*)-form

CAS Registry Number: 76821-59-5

Molecular Formula: C₂₆H₂₂ClF₃N₂O₃

Molecular Weight: 502.919

Accurate Mass: 502.127104

Percentage Composition: C 62.09%; H 4.41%; Cl 7.05%; F 11.33%; N 5.57%; O 9.54%

Optical Rotation: $[\alpha]_D^{25} -44.6$ (c, 0.49 in CHCl₃)

>>Variant: (2*R*)-form

Synonym(s): Tau-fluvalinate, BSI. Mavrik HR. Klartan. Apistan

CAS Registry Number: 102851-06-9

Molecular Formula: C₂₆H₂₂ClF₃N₂O₃

Molecular Weight: 502.919

Accurate Mass: 502.127104

Percentage Composition: C 62.09%; H 4.41%; Cl 7.05%; F 11.33%; N 5.57%; O 9.54%

Use/Importance: Pyrethroid insecticide

Physical Description: Viscous yellow oil

Boiling Point: Bp 450°

Other Data: This is a coml. mixt. of enriched stereoisomers replacing the formerly used undifferentiated isomeric mixt.

Hazard & Toxicity: LD₅₀ (rat, orl) >3000 mg

References: