



Accurate Mass: 321.056799

Percentage Composition: C 59.73%; H 4.07%; Cl 11.02%; F 5.90%; N 4.35%; O 14.92%

Use/Importance: Herbicide. Fatty acid synthesis inhibitor

>>**Derivative:** Me ester

Synonym(s): Flamprop-methyl. Mataven

CAS Registry Number: 52756-25-9

Molecular Formula: C₁₇H₁₅ClFNO₃

Molecular Weight: 335.762

Percentage Composition: C 60.81%; H 4.50%; Cl 10.56%; F 5.66%; N 4.17%; O 14.30%

Use/Importance: Post-emergent herbicide

Melting Point: Mp 84-86°

Hazard & Toxicity: LD₅₀ (rat, orl) 1200 mg/kg

>>**Derivative:** Isopropyl ester

Synonym(s): Flamprop-isopropyl. Flufenprop-isopropyl. Barnon

CAS Registry Number: 52756-22-6

Molecular Formula: C₁₉H₁₉ClFNO₃

Molecular Weight: 363.815

Percentage Composition: C 62.73%; H 5.26%; Cl 9.74%; F 5.22%; N 3.85%; O 13.19%

Use/Importance: Post-emergent herbicide

References:

U.K. Pat., 1972, 1 437 711; *CA*, **81**, 25391p

Ger. Pat., 1977, 2 650 434; *CA*, **87**, 67990n, (esters)

Hutson, D.H. *et al.*, *Xenobiotica*, 1977, **7**, 279, (metab, flamprop-isopropyl)

U.K. Pat., 1978, 1 513 726; *CA*, **90**, 39267a, (esters)

Pesticide Manual, 9th edn., 1991, No. 6370; 6380

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A209; A210