



acid

CAS Registry Number: 77501-60-1

Molecular Formula: C₁₆H₉ClF₃NO₇

Molecular Weight: 419.698

Percentage Composition: C 45.79%; H 2.16%; Cl 8.45%; F 13.58%; N 3.34%; O 26.68%

Use/Importance: Herbicide

>> **Derivative:** 2-Ethoxy-2-oxoethyl ester

Synonym(s): Fluoroglycofen-ethyl

CAS Registry Number: 77501-90-7

Molecular Formula: C₁₈H₁₃ClF₃NO₇

Molecular Weight: 447.751

Accurate Mass: 447.033265

Percentage Composition: C 48.29%; H 2.93%; Cl 7.92%; F 12.73%; N 3.13%; O 25.01%

Use/Importance: Herbicide. Protoporphyrinogen oxidase inhibitor

Physical Description: Dark amber solid

Melting Point: Mp 65°

Density: d₂₅ 1.01

Hazard & Toxicity: LD₅₀ (rat, orl) 1500 mg/kg

>> **Derivative:** Nitrile

CAS Registry Number: 50594-65-5

Molecular Formula: C₁₄H₆ClF₃N₂O₃

Molecular Weight: 342.661

Percentage Composition: C 49.07%; H 1.76%; Cl 10.35%; F 16.63%; N 8.18%; O 14.01%

Physical Description: Cryst.

Melting Point: Mp 95-103°

References:

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Orr, G.L. *et al.*, *ACS Symp. Ser.*, 1982, **181**, 131, (*rev*)

Lee, G.H., *J. Agric. Food Chem.*, 1985, **33**, 499, (*pmr, cmr*)

Kennard, C.H.L. *et al.*, *Aust. J. Chem.*, 1987, **40**, 1131, (*cryst struct*)

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