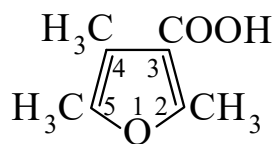




>>Entry Name: 2,4,5-Trimethyl-3-furancarboxylic acid, 9CI



CAS Registry Number: 28730-32-7

Molecular Formula: C₈H₁₀O₃

Molecular Weight: 154.165

Accurate Mass: 154.062995

Percentage Composition: C 62.33%; H 6.54%; O 31.13%

Physical Description: Cryst. (petrol)

Melting Point: Mp 131-132°

Solubility: Spar. sol. H₂O

>>Derivative: Et ester

CAS Registry Number: 62664-62-4

Molecular Formula: C₁₀H₁₄O₃

Molecular Weight: 182.219

Accurate Mass: 182.094295

Percentage Composition: C 65.92%; H 7.74%; O 26.34%

Physical Description: Liq.

Boiling Point: Bp₁₂ 100-105°

>>Derivative: Anilide

Synonym(s): 2,4,5-Trimethyl-N-phenyl-3-furancarboxamide, 9CI. **Methfuroxan**, ANSI, BSI, ISO

CAS Registry Number: 28730-17-8

Molecular Formula: C₁₄H₁₅NO₂

Molecular Weight: 229.278

Accurate Mass: 229.110279

Percentage Composition: C 73.34%; H 6.59%; N 6.11%; O 13.96%

Use/Importance: Fungicide

Physical Description: Cryst.

Melting Point: Mp 138-142°

Hazard & Toxicity: LD₅₀ (rat, orl) 4300 mg/kg

References:

Ger. Pat., 1970, 2 006 472; *CA*, **73**, 98933m, (*synth, Methfuroxan*)

Valenta, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1972, **37**, 493, (*synth, ir*)

Duus, F., *Tetrahedron*, 1976, 2817, (*pmr*)

Jackson, D., *Br. Crop Prot. Conf. - Pests Dis., Proc.*, 1979, 549, (*Methfuroxan*)

Mitchell, A.D. *et al.*, *Pestic. Biochem. Physiol.*, 1982, **18**, 57, (*metab, Methfuroxan*)

White, G.A., *Pestic. Biochem. Physiol.*, 1988, **31**, 129, (*Methfuroxan*)

Pesticide Manual, 9th edn., 1991, No. 8120, (*Methfuroxan*)