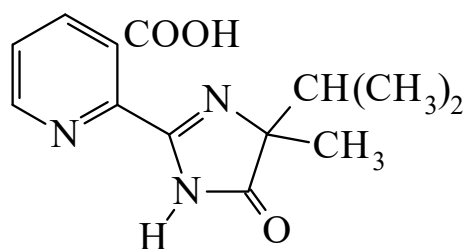




>>Entry Name: Imazapyr, ANSI, BSI

Synonym(s): 2-[4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid, 9Cl. 2-(4-Isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid. Arsenal. Assault. AC 252925



CAS Registry Number: 81334-34-1

Related CAS Registry Numbers(s): 81510-77-2 81510-78-3 94795-74-1

Molecular Formula: C₁₃H₁₅N₃O₃

Molecular Weight: 261.28

Accurate Mass: 261.111342

Percentage Composition: C 59.76%; H 5.79%; N 16.08%; O 18.37%

Use/Importance: Herbicide. Branched chain amino acid synth. inhibitor

pKa Value: pK_{a1} 1.9; pK_{a2} 3.6

Hazard & Toxicity: LD₅₀ (rat, orl) >5000 mg/kg

>>Derivative: Isopropylammonium salt

Synonym(s): Imazapyr-isopropylammonium

CAS Registry Number: 81510-83-0

Molecular Formula: C₁₆H₂₄N₄O₃

Molecular Weight: 320.391

Accurate Mass: 320.184841

Percentage Composition: C 59.98%; H 7.55%; N 17.49%; O 14.98%

Use/Importance: Herbicide

Physical Description: Solid

Melting Point: Mp 128-130°

References:

- Eur. Pat.*, 1981, 41 623; *CA*, **96**, 199687q, (*synth, activity, salt*)
Ciarlante, D.R. *et al.*, *Int. Congr. Plant Prot., Proc. Conf.*, 10th, 1983, **1**, 339, (*activity, salt*)
U.S. Pat., 1984, 4 460 776; *CA*, **101**, 171115z, (*synth, activity*)
Shaner, D. *et al.*, *Proc. Br. Crop Prot. Conf. Weeds*, 1985, 147, (*activity*)
Camilleri, P. *et al.*, *Chem. Comm.*, 1989, 1722, (*pmr, cryst struct*)
Pesticide Manual, 9th edn., 1991, No. 7234