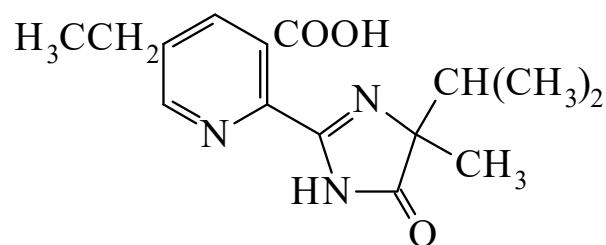




>>Entry Name: Imazethapyr, ANSI, BSI

Synonym(s): 2-[4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid, 9Cl. 5-Ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid. Pursuit



CAS Registry Number: 81335-77-5

Related CAS Registry Numbers(s): 89084-69-5

Molecular Formula: C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight: 289.333

Accurate Mass: 289.142642

Percentage Composition: C 62.27%; H 6.62%; N 14.52%; O 16.59%

>>Variant: (±)-form

Molecular Formula: C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight: 289.333

Accurate Mass: 289.142642

Percentage Composition: C 62.27%; H 6.62%; N 14.52%; O 16.59%

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

Physical Description: Cryst.

Melting Point: Mp 169-173°

pKa Value: pK<sub>a1</sub> 2.1; pK<sub>a2</sub> 3.9

Hazard & Toxicity: LD<sub>50</sub> (rat, orl) >5000 mg/kg

>>Derivative: NH<sub>4</sub> salt

Synonym(s): Imazethapyr-ammonium

CAS Registry Number: 101917-66-2

Use/Importance: Herbicide

#### References:

Peoples, T.R. *et al.*, *Proc. Br. Crop Prot. Conf. Weeds*, 1985, 99, (activity)

*U.K. Pat.*, 1986, 2 174 395; *CA*, **106**, 213943d, (synth, activity)

Van Ellis, M.R. *et al.*, *Pestic. Sci.*, 1988, **23**, 25; 1990, **29**, 335, (activity)

*Pesticide Manual*, 9th edn., 1991, No. 7238