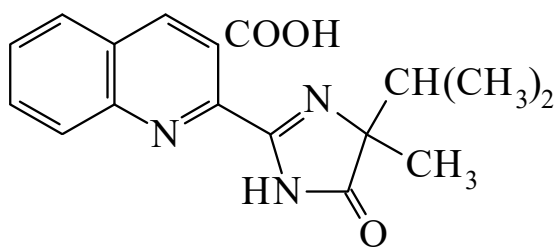




>>Entry Name: Imazaquin, ANSI, BSI

Synonym(s): 2-[4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-quinolinecarboxylic acid, 9Cl. 2-(4-Isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-3-quinolinecarboxylic acid



CAS Registry Number: 81335-37-7

Related CAS Registry Numbers(s): 89084-70-8 94795-75-2 94795-76-3

Molecular Formula: C₁₇H₁₇N₃O₃

Molecular Weight: 311.34

Accurate Mass: 311.126992

Percentage Composition: C 65.58%; H 5.50%; N 13.50%; O 15.42%

>>Variant: (±)-form

Molecular Formula: C₁₇H₁₇N₃O₃

Molecular Weight: 311.34

Accurate Mass: 311.126992

Percentage Composition: C 65.58%; H 5.50%; N 13.50%; O 15.42%

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

Physical Description: Solid

Melting Point: Mp 219-222°

pKa Value: pK_a 3.8 (COOH)

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

>>Derivative: NH₄ salt

Synonym(s): Imazaquin-ammonium

CAS Registry Number: 81335-47-9

Use/Importance: Herbicide

References:

Eur. Pat., 1981, 41 623; *CA*, **96**, 1996687q, (*synth, activity*)

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

Pesticide Manual, 9th edn., 1991, No. 7236