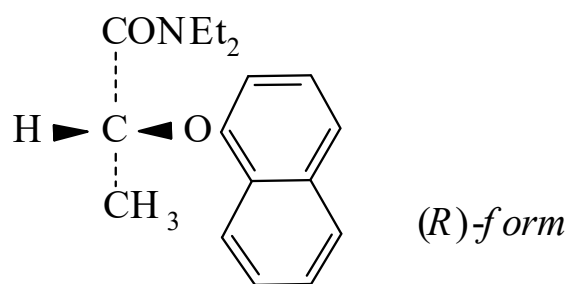




>>Entry Name: Napropamide, BSI, ISO, JMAF, WSSA

Synonym(s): *N,N*-Diethyl-2-(1-naphthalenyloxy)propanamide, 9CI. *N,N*-Diethyl-2-(1-naphthyloxy)propionamide. Devrinol



CAS Registry Number: 15299-99-7

Related CAS Registry Numbers(s): 41643-36-1

Molecular Formula: C₁₇H₂₁NO₂

Molecular Weight: 271.358

Accurate Mass: 271.157229

Percentage Composition: C 75.25%; H 7.80%; N 5.16%; O 11.79%

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

Supelco: R30-0485

>>Variant: (*R*)-form

Synonym(s): D-form

CAS Registry Number: 41643-35-0

Molecular Formula: C₁₇H₂₁NO₂

Molecular Weight: 271.358

Accurate Mass: 271.157229

Percentage Composition: C 75.25%; H 7.80%; N 5.16%; O 11.79%

Melting Point: Mp 90-92°

Optical Rotation: [α]_D²⁰ -121.35

Other Data: Eight times more active than the racemate

>>Variant: (±)-form

Molecular Formula: C₁₇H₂₁NO₂

Molecular Weight: 271.358

Accurate Mass: 271.157229

Percentage Composition: C 75.25%; H 7.80%; N 5.16%; O 11.79%

Use/Importance: Selective herbicide

Physical Description: Brown solid (technical grade)

Melting Point: Mp 75°

Solubility: V. spar. sol. H₂O, v. sol. Me₂CO, EtOH, xylene

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

References:

U.S. Pat., 1967, 3 480 671; *CA*, **72**, 31506k

Chan, J.H.H. *et al.*, *J. Agric. Food Chem.*, 1975, **23**, 1008, (*abs config*)

Ashton, F.M. *et al.*, *J. Plant Growth Regul.*, 1983, **1**, 277, (*isomers, metab*)

Mueller, M.D. *et al.*, *Chimia*, 1991, **45**, 160, (*resoln*)

Pesticide Manual, 9th edn., 1991, No. 8840

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A292