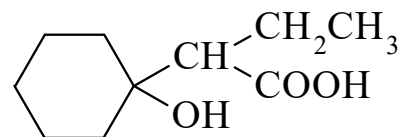




>>Entry Name: 2-(1-Hydroxycyclohexyl)butanoic acid

Synonym(s): α -Ethyl-1-hydroxycyclohexaneacetic acid, 9CI. Cyclobutyrol, INN



CAS Registry Number: 512-16-3

Related CAS Registry Numbers(s): 23579-12-6

Molecular Formula: C₁₀H₁₈O₃

Molecular Weight: 186.25

Accurate Mass: 186.125595

Percentage Composition: C 64.49%; H 9.74%; O 25.77%

Use/Importance: Choleric agent

Calculated Log P Data: Log P 1.88 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 4820 mg/kg. LD₅₀ (rat, ivn) 1760 mg/kg

>>Variant: (±)-form

Molecular Formula: C₁₀H₁₈O₃

Molecular Weight: 186.25

Accurate Mass: 186.125595

Percentage Composition: C 64.49%; H 9.74%; O 25.77%

Melting Point: Mp 81-82°

Boiling Point: Bp_{0.5} 138-140°

>>Derivative: Na salt

Synonym(s): Bicol. Bilimix. Bis-Bil. Colepan. Dimene. Hebucol. Maricolene. Tachicol. Viobilina. Liptriu. JL 130. Many other names

CAS Registry Number: 1130-23-0

Physical Description: Hygroscopic powder

Melting Point: Mp 299-300°

>>Derivative: Choline salt

CAS Registry Number: 24759-08-8

Melting Point: Mp 92-95°

>>Derivative: Nicotinamide salt (1:1)

CAS Registry Number: 87425-18-1

Use/Importance: Used in treatment of liver disorders

Melting Point: Mp 135-136°

References:

- Maillard, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1958, 244, (synth)
Roquet, J. *et al.*, *Arch. Int. Pharmacodyn. Ther.*, 1960, **125**, 172, (pharmacol)
Chiari, A. *et al.*, *Boll. Chim. Farm.*, 1961, **100**, 851, (synth, pharmacol, salts)
Fr. Pat., 1968, *Laboratoires Jacques Logeais*, M5 609; *CA*, **71**, 80801, (synth, salts)
Bellasoued, M. *et al.*, *J. Organomet. Chem.*, 1973, **61**, 9, (synth)
Fujita, T. *et al.*, *J. Appl. Chem. Biotechnol.*, 1977, **27**, 593, (synth)
Monte, M.J. *et al.*, *Biochem. J.*, 1989, **263**, 513; 1990, **266**, 165, (pharmacol)
Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1359
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., *Akademie-Verlag*, 1994, 2133, (synonyms)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, COW700