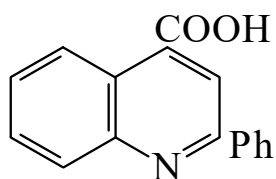




>>Entry Name: 2-Phenyl-4-quinolinecarboxylic acid, 9CI

Synonym(s): 2-Phenylcinchoninic acid. **Cinchophen**, BAN, INN. Atophan. Quinophen. Aciphenquinoline. Cincophen



CAS Registry Number: 132-60-5

Molecular Formula: $C_{16}H_{11}NO_2$

Molecular Weight: 249.268

Accurate Mass: 249.078979

Percentage Composition: C 77.10%; H 4.45%; N 5.62%; O 12.84%

Use/Importance: Analgesic, antiinflammatory agent. Used as 0.01M aq. soln. of Na salt for extraction-photometric detn. of Sc and lanthanides

Physical Description: Cryst. (MeOH)

Development Status: No longer in widespread use

Melting Point: Mp 218°

Solubility: Insol. H_2O

Calculated Log P Data: Log P 4.28 (calc)

Hazard & Toxicity: Hepatotoxic effects when used therapeutically. LD₅₀ (mus, scu) 350 mg/kg

Aldrich: 19647-9

Rare Chemicals Library: S56391-9

>>Derivative: Hydrochloride

Physical Description: Lemon-yellow cryst.

Melting Point: Mp 223°

>>Derivative: Hydrobromide

Physical Description: Brownish-yellow cryst.

Melting Point: Mp 255°

>>Derivative: Hydroiodide

Physical Description: Orange cryst.

Melting Point: Mp 243°

>>Derivative: Methiodide

Physical Description: Red cryst. (EtOH aq.)

Melting Point: Mp 160-165 dec.°

>>Derivative: 1-Oxide

CAS Registry Number: 20389-12-2

Molecular Formula: $C_{16}H_{11}NO_3$

Molecular Weight: 265.268

Accurate Mass: 265.073894

Percentage Composition: C 72.45%; H 4.18%; N 5.28%; O 18.09%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 255-256°

>>Derivative: Me ester

CAS Registry Number: 4546-48-9

Molecular Formula: $C_{17}H_{13}NO_2$

Molecular Weight: 263.295

Accurate Mass: 263.094629

Percentage Composition: C 77.55%; H 4.98%; N 5.32%; O 12.15%

Melting Point: Mp 61°

Other Data: Bitter taste

Aldrich: 15367-2