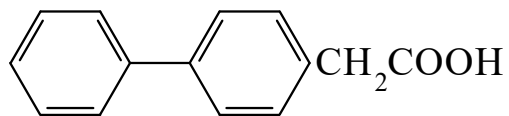




>>Entry Name: 4-Biphenylacetic acid

Synonym(s): *p*-Biphenylacetic acid. **Felbinac**, BAN, INN, USAN. Napageln. Traxam. CL 83544. LY 61017



CAS Registry Number: 5728-52-9

Molecular Formula: C₁₄H₁₂O₂

Molecular Weight: 212.248

Accurate Mass: 212.08373

Percentage Composition: C 79.23%; H 5.70%; O 15.08%

Metabolism: Active metab. of 4-(4-Biphenyl)-4-oxobutanoic acid [DMM33-E](#)

Use/Importance: Reagent for the titration of alkyl lithiums. Shows strong antiinflammatory activity. Analgesic, antipyretic agent

Physical Description: Cryst. (AcOH)

Development Status: Launched 1986

Melting Point: Mp 164-165°

Calculated Log P Data: Log P 3.3 (calc)

Hazard & Toxicity: Topical application has caused erythema, dermatitis and other skin effects, and bronchospasm in susceptible patients. LD₅₀ (rat, orl) 164 mg/kg. Exp. reprod. and teratogenic effects

Aldrich: 19648-7

Sigma: B4152

>>Derivative: Me ester

Molecular Formula: C₁₅H₁₄O₂

Molecular Weight: 226.274

Accurate Mass: 226.09938

Percentage Composition: C 79.62%; H 6.24%; O 14.14%

Physical Description: Solid

Melting Point: Mp 27.5-28.4°

Boiling Point: Bp_{0.5} 140-143°

>>Derivative: Nitrile

Synonym(s): [1,1'-Biphenyl]-4-acetonitrile, 9CI. 4-Cyanomethylbiphenyl

CAS Registry Number: 31603-77-7

Molecular Formula: C₁₄H₁₁N

Molecular Weight: 193.248

Accurate Mass: 193.089149

Percentage Composition: C 87.01%; H 5.74%; N 7.25%

Melting Point: Mp 89-92°

Other: PB: B10910

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