



>>Entry Name: 4-Biphenylcarboxylic acid

Synonym(s): *p*-Phenylbenzoic acid

CAS Registry Number: 92-92-2

Molecular Formula: C₁₃H₁₀O₂

Molecular Weight: 198.221

Accurate Mass: 198.06808

Percentage Composition: C 78.77%; H 5.08%; O 16.14%

Physical Description: Needles

Melting Point: Mp 228°

pKa Value: pK_a 5.45 (25°, 5.35, 50% aq. EtOH)

Aldrich: B3472-9

Fluka: 14421

Sigma: P5376

Other: Nagase Corp.

>>Derivative: Me ester

CAS Registry Number: 720-75-2

Molecular Formula: C₁₄H₁₂O₂

Molecular Weight: 212.248

Accurate Mass: 212.08373

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

Physical Description: Cryst. (diisopropyl ether)

Melting Point: Mp 119-121°

Rare Chemicals Library: S92278-1

Sigma: P5501

>>Derivative: Et 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: Prisms

Melting Point: Mp 46°

>>Derivative: Chloride

CAS Registry Number: 14002-51-8

Molecular Formula: C₁₃H₉ClO

Molecular Weight: 216.666

Accurate Mass: 216.034192

Percentage Composition: C 72.07%; H 4.19%; Cl 16.36%; O 7.38%

Use/Importance: Reagent for protection of primary and secondary amines

Physical Description: Needles (petrol)

Melting Point: Mp 114-115°

Aldrich: 16114-4

Fluka: 14425

Sigma: B6009

>>Derivative: Amide

Molecular Formula: C₁₃H₁₁NO

Molecular Weight: 197.236

Accurate Mass: 197.084064

Percentage Composition: C 79.17%; H 5.62%; N 7.10%; O 8.11%

Physical Description: Needles (AcOH)

Melting Point: Mp 223°