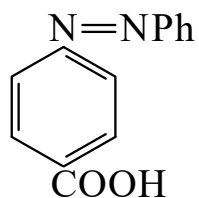




>>Entry Name: Azobenzene-4-carboxylic acid

Synonym(s): 4-Phenylazobenzoic acid, 9Cl. *p*-Phenylazobenzoic acid, 8Cl. Benzeneazo-*p*-benzoic acid. Azoic acid



CAS Registry Number: 1562-93-2

Related CAS Registry Numbers(s): 7508-68-1 37790-20-8 53547-15-2

Molecular Formula: C₁₃H₁₀N₂O₂

Molecular Weight: 226.234

Accurate Mass: 226.074228

Percentage Composition: C 69.02%; H 4.46%; N 12.38%; O 14.14%

Physical Description: Red leaflets with golden lustre (EtOH)

Melting Point: Mp 249° (233-235°)

>>Derivative: Me ester

CAS Registry Number: 2918-88-9

Molecular Formula: C₁₄H₁₂N₂O₂

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Physical Description: Orange-red cryst. (EtOH)

Melting Point: Mp 123-124°

Rare Chemicals Library: S92337-0

>>Derivative: Chloride

CAS Registry Number: 104-24-5

Extra CAS Registry Numbers(s): 102840-81-3

Molecular Formula: C₁₃H₉ClN₂O

Molecular Weight: 244.68

Accurate Mass: 244.04034

Percentage Composition: C 63.82%; H 3.71%; Cl 14.49%; N 11.45%; O 6.54%

Use/Importance: Forms coloured esters with alcohols. Used for identification and chromatog. sepn. of alcohols, amines and phenols

Melting Point: Mp 92-94°

Rare Chemicals Library: S80926-8

>>Derivative: Amide

CAS Registry Number: 29530-53-8

Extra CAS Registry Numbers(s): 102840-83-5

Molecular Formula: C₁₃H₁₁N₃O

Molecular Weight: 225.249

Accurate Mass: 225.090212

Percentage Composition: C 69.32%; H 4.92%; N 18.65%; O 7.10%

Physical Description: Red cryst.

Melting Point: Mp 230° (224-226°)

>>Derivative: Hydrazide

Molecular Formula: C₁₃H₁₂N₄O

Molecular Weight: 240.264

Accurate Mass: 240.101111

Percentage Composition: C 64.99%; H 5.03%; N 23.32%; O 6.66%

Use/Importance: Gives high-melting orange hydrazones with carbonyl compds.

Melting Point: Mp 209°