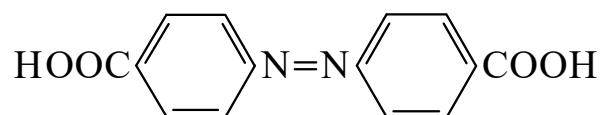




>>Entry Name: Azobenzene-4,4'-dicarboxylic acid

Synonym(s): 4,4'-Azobisbenzoic acid, 9Cl. *p,p'*-Azobenzoic acid



CAS Registry Number: 586-91-4

Molecular Formula: C₁₄H₁₀N₂O₄

Molecular Weight: 270.244

Accurate Mass: 270.064058

Percentage Composition: C 62.22%; H 3.73%; N 10.37%; O 23.68%

>>Variant: (*E*)-(?)-form

Molecular Formula: C₁₄H₁₀N₂O₄

Molecular Weight: 270.244

Accurate Mass: 270.064058

Percentage Composition: C 62.22%; H 3.73%; N 10.37%; O 23.68%

Melting Point: Mp 330-360 dec.°

>>Derivative: Di-Me ester

CAS Registry Number: 5320-91-2

Molecular Formula: C₁₆H₁₄N₂O₄

Molecular Weight: 298.298

Accurate Mass: 298.095358

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Physical Description: Red needles (AcOH)

Melting Point: Mp 242°

>>Derivative: Dichloride

CAS Registry Number: 10252-29-6

Molecular Formula: C₁₄H₈Cl₂N₂O₂

Molecular Weight: 307.135

Accurate Mass: 305.996282

Percentage Composition: C 54.75%; H 2.63%; Cl 23.09%; N 9.12%; O 10.42%

Physical Description: Red needles (C₆H₆)

Melting Point: Mp 144-145°

>>Derivative: *N*-Oxide

Synonym(s): 4,4'-Azoxybisbenzoic acid, 9Cl. Azoxybisbenzene-4,4'-dicarboxylic acid. *p*-Azoxybenzoic acid

CAS Registry Number: 582-69-4

Molecular Formula: C₁₄H₁₀N₂O₅

Molecular Weight: 286.243

Accurate Mass: 286.058973

Percentage Composition: C 58.75%; H 3.52%; N 9.79%; O 27.95%

Source/Synthesis: Metab. of *Entomophthora virulenta*

Physical Description: Yellow amorph. powder

Melting Point: Mp 360°

>>Derivative: *N*-Oxide, di-Me ester

Molecular Formula: C₁₆H₁₄N₂O₅

Molecular Weight: 314.297

Accurate Mass: 314.090273

Percentage Composition: C 61.14%; H 4.49%; N 8.91%; O 25.45%

Physical Description: Yellowish needles (AcOH)

Melting Point: Mp 207°

References:

Clark, V.M. *et al.*, *Tetrahedron*, 1969, **25**, 4241, (*synth, ir, pmr*)

Claydon, N. *et al.*, *J.C.S. Perkin 1*, 1978, 171

Ameerunisha, S. *et al.*, *J.C.S. Perkin 2*, 1995, 1679, (*synth, dichloride, ir, pmr*)

Suresh, S. *et al.*, *Tetrahedron*, 1995, **51**, 11305, (*synth, ir, pmr, ms, oxide*)