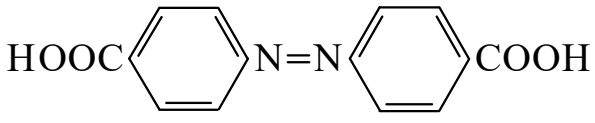
>>**Entry Name: Azobenzene-4,4'-dicarboxylic acid**
Synonym(s): 4,4'-Azobisbenzoic acid, 9Cl. *p,p*'-Azobenzoic acid



CAS Registry Number: 586-91-4

Molecular Formula: $C_{14}H_{10}N_2O_4$
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: $C_{14}H_{10}N_2O_4$
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: $C_{16}H_{14}N_2O_4$
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: $C_{14}H_8Cl_2N_2O_2$
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 (C_6H_6)
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: $C_{14}H_{10}N_2O_5$
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: $C_{16}H_{14}N_2O_5$
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)*