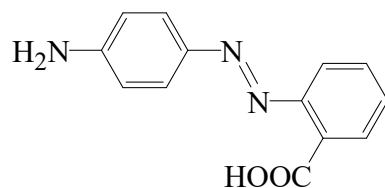




>>Entry Name: 2-[(4-Aminophenyl)azo]benzoic acid

Synonym(s): 4'-Aminoazobenzene-2-carboxylic acid



Molecular Formula: C₁₃H₁₁N₃O₂

Molecular Weight: 241.249

Accurate Mass: 241.085127

Percentage Composition: C 64.72%; H 4.60%; N 17.42%; O 13.26%

Aldrich: 25019-8

Fluka: 69133

Rare Chemicals Library: S60259-0

Sigma: M7267

>>Derivative: *N,N*-Di-Me

Synonym(s): 2-[[4-(Dimethylamino)phenyl]azo]benzoic acid. 4'-Dimethylaminoazobenzene-2-carboxylic acid. Methyl red. C.I. 13020. C.I. Acid red 2

CAS Registry Number: 493-52-7

Extra CAS Registry Numbers(s): 845-10-3

Molecular Formula: C₁₅H₁₅N₃O₂

Molecular Weight: 269.302

Accurate Mass: 269.116427

Percentage Composition: C 66.90%; H 5.61%; N 15.60%; O 11.88%

Use/Importance: Used as 0.0005% soln. in 1M H₂SO₄ or 0.1% in EtOH as an acid-base indicator (pH range: 4.4-6.2; colour change: red → yellow); photometric detn. of Cl₂, Ce, Pd

Physical Description: Orange cryst. powder (as Na salt)

Melting Point: Mp 179° (Na salt)

Solubility: Na salt sol. H₂O, EtOH

Other Data: Strictly, the name Methyl red and the other dye names apply to the sodium salt

Aldrich: 11450-2

Sigma: M8256

>>Derivative: *N,N*-Di-Et

Synonym(s): 2-[[4-(Diethylamino)phenyl]azo]benzoic acid. 4'-Diethylaminoazobenzene-2-carboxylic acid. Ethyl red

CAS Registry Number: 76058-33-8

Molecular Formula: C₁₇H₁₉N₃O₂

Molecular Weight: 297.356

Accurate Mass: 297.147727

Percentage Composition: C 68.67%; H 6.44%; N 14.13%; O 10.76%

Use/Importance: Dye, indicator

Physical Description: Red cryst.

Melting Point: Mp 148°

References:

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Popa, G. *et al.*, *Zh. Anal. Khim.*, 1959, **14**, 322, (*detn, Pd*)

Vogel, A.I., *A Textbook of Quantitative Inorganic Analysis*, Longmans, London, 1961, (*use, ind*)

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Marczenko, Z. *et al.*, *Chem. Anal. (Warsaw)*, 1966, **11**, 1221, (*detn, Cl₂*)

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