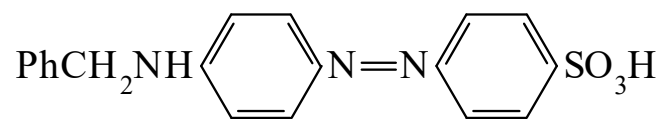




>>Entry Name: Benzyl orange

Synonym(s): 4-[[4-[(Phenylmethyl)amino]phenyl]azo]benzenesulfonic acid, 9Cl. 4'-Benzylaminoazobenzene-4-sulfonic acid



Molecular Formula: C₁₉H₁₇N₃O₃S

Molecular Weight: 367.428

Accurate Mass: 367.099062

Percentage Composition: C 62.11%; H 4.66%; N 11.44%; O 13.06%; S 8.73%

General Statement: Strictly, the name Benzyl orange applies to the sodium salt

>>Derivative: Na salt

CAS Registry Number: 36402-77-4

Use/Importance: Used as a 0.01% aq. soln. as acid-base indicator (pH range: 1.9 - 3.3; colour change: red → yellow)

Physical Description: Orange-red cryst. powder

Solubility: Sol. EtOH; spar. sol. cold H₂O

References:

El-Sebai, A.I. *et al.*, *Pharmazie*, 1971, **26**, 615

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 86