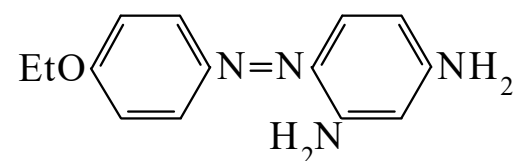




>>Entry Name: 2,4-Diamino-4'-ethoxyazobenzene

Synonym(s): 4-[(4-Ethoxyphenyl)azo]-1,3-benzenediamine, 9Cl. 4-[(*p*-Ethoxyphenyl)azo]-*m*-phenylenediamine, 8Cl. **Etoxazene**, INN. Carmurit. Cystural. Ethoxazene. *p*-Ethoxychrysoidine



CAS Registry Number: 94-10-0

Related CAS Registry Numbers(s): 74367-87-6 122014-10-2 125653-86-3

Molecular Formula: C₁₄H₁₆N₄O

Molecular Weight: 256.307

Accurate Mass: 256.132411

Percentage Composition: C 65.61%; H 6.29%; N 21.86%; O 6.24%

Use/Importance: Analgesic antibacterial agent, acid/base indicator (pH range: 3.5-5.5; colour change: red → yellow); redox indicator in bromatometric arsenite detn.; adsorption indicator in argentometry. Used as 0.2% soln. in H₂O or EtOH

Physical Description: Orange needles

Melting Point: Mp 116-117°

Solubility: Sol. H₂O, EtOH, Me₂CO

Calculated Log P Data: Log P 2.83 (calc)

>>Derivative: Hydrochloride

Synonym(s): **Etoxazene hydrochloride**, USAN. Acidotest. Diaphenyl. Serenium. SQ 2128. NSC 7214. SN 612. Many other names

CAS Registry Number: 2313-87-3

Physical Description: Red powder

Solubility: Sol. boiling H₂O, EtOH

References:

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Belcher, R., *Anal. Chim. Acta*, 1949, **3**, 578; 1950, **4**, 580, (*bromatometry, arsenite detn*)
Schulek, E. *et al.*, *Anal. Chim. Acta*, 1952, **7**, 446, (*ind*)
Czech. Pat., 1959, 90 620; *CA*, **55**, 7767f, (*synth*)
Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 86, (*argentometric ind*)
Martindale, The Extra Pharmacopoeia, 28th/29th edn., Pharmaceutical Press, 1982, 2643
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., Akademie-Verlag, 1994, 4012