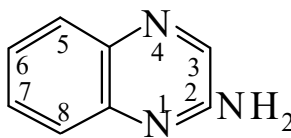




>>Entry Name: 2-Aminoquinoxaline

ENTRY UNDER REVIEW

Synonym(s): 2-Quinoxalinamine, 9CI



CAS Registry Number: 5424-05-5

Related CAS Registry Numbers(s): 967-80-6

Molecular Formula: C₈H₇N₃

Molecular Weight: 145.163

Accurate Mass: 145.063997

Percentage Composition: C 66.19%; H 4.86%; N 28.95%

Melting Point: Mp 155-156°

pKa Value: pK_a 3.93 (20°)

Other Data: Subl. *in vacuo*

Rare Chemicals Library: S83617-6

>>Derivative: 2-*N*-Ac

CAS Registry Number: 6479-24-9

Molecular Formula: C₁₀H₉N₃O

Molecular Weight: 187.201

Accurate Mass: 187.074562

Percentage Composition: C 64.16%; H 4.85%; N 22.45%; O 8.55%

Physical Description: Yellow

Melting Point: Mp 192.3-193.5°

>>Derivative: 1-*N*-Oxide

CAS Registry Number: 6479-23-8

Molecular Formula: C₈H₇N₃O

Molecular Weight: 161.163

Accurate Mass: 161.058912

Percentage Composition: C 59.62%; H 4.38%; N 26.07%; O 9.93%

Melting Point: Mp 187-188°

>>Derivative: *N*-(4-Aminobenzenesulfonyl)

Synonym(s): 4-Amino-*N*-2-quinoxalinybenzenesulfonamide, 9CI. **Sulfaquinoxaline**, BAN, INN. Avicocid. Aviochina. Embazin. Italquina. Kokozigal S. Nococcin. Quinoxipra C. Sulfabenzpyrazine. Sulfa-Q. Sulquin. Compound 3-120

CAS Registry Number: 59-40-5

Molecular Formula: C₁₄H₁₂N₄O₂S

Molecular Weight: 300.34

Accurate Mass: 300.068096

Percentage Composition: C 55.99%; H 4.03%; N 18.65%; O 10.65%; S 10.68%

Use/Importance: Antimicrobial, coccidiostat for vet. use. Potential food contaminant in animal products arising from its veterinary use

Melting Point: Mp 247-248°

Solubility: Sol. alkalis

Calculated Log P Data: Log P 1.66 (calc)

Other Data: Freq. used as Na salt

Hazard & Toxicity: LD₅₀ (rat, orl) 1370 mg/kg

Fluka: 86024

Sigma: S7382

References:

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Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 205

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