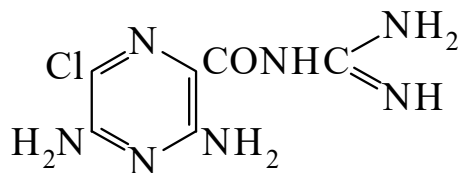




>>Entry Name: Amiloride, BAN, INN

Synonym(s): 3,5-Diamino-*N*-(aminoiminomethyl)-6-chloropyrazinecarboxamide, 9Cl. *N*-Amidino-3,5-diamino-6-chloropyrazinamide. Amipramidine. Amipramizide. Guanampazine. Midamor. Many other names



CAS Registry Number: 2609-46-3

Related CAS Registry Numbers(s): 17440-83-4

Molecular Formula: C₆H₈ClN₇O

Molecular Weight: 229.628

Accurate Mass: 229.047885

Percentage Composition: C 31.38%; H 3.51%; Cl 15.44%; N 42.70%; O 6.97%

Use/Importance: Potassium-sparing diuretic. Used as a 0.01*M* aq. soln. for extraction-photometric detn. of ClO₄⁽⁻⁾ (ε 13000)

Melting Point: Mp 240-241.5°

>>Derivative: Hydrochloride

Synonym(s): Amiloride hydrochloride, USAN

CAS Registry Number: 2016-88-8

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 285-288 dec.° (293.5° anhydr.)

Sigma: A7410

References:

- Cragoe, E.J. *et al.*, *J. Med. Chem.*, 1967, **10**, 66, (*synth, pharmacol*)
Smith, R.L. *et al.*, *J.A.C.S.*, 1979, **101**, 191, (*pmr, cmr, N-15 nmr, tautom*)
Burns, D.T. *et al.*, *Anal. Chim. Acta*, 1980, **118**, 185, (*detn, ClO₄⁽⁻⁾*)
Hyams, D.E., *Int. Congr. Symp. Ser. R. Soc. Med.*, 1981, **44**, 65, (*rev*)
Laragh, J.H., *Curr. Ther. Res.*, 1982, **32**, 173, (*rev*)
Martindale, The Extra Pharmacopoeia, 28th/29th edn., Pharmaceutical Press, 1982, 2304
Mazzo, D.J., *Anal. Profiles Drug Subst.*, 1986, **15**, 1, (*rev*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms, 6th edn.*, Akademie-Verlag, 1987, 445, (*synonyms*)
Amiloride and its Analogs, (eds. Cragoe, E.J. *et al*), VCH, New York, 1992, (*book*)
Buono, R.A. *et al.*, *J.A.C.S.*, 1994, **116**, 1502, (*conformn*)