



Synonym(s): Methenamine hippurate, JAN, USAN. Hexamine hippurate, BAN. Hiprex. Urex

CAS Registry Number: 5714-73-8

Biological Use/Importance: Urinary antibacterial

Physical Description: Cryst.

Melting Point: Mp 105-110°

>>**Derivative:** Compd. with Mandelic Acid (1:1)

Synonym(s): Methenamine mandelate, USAN. Mandelamine. Hexamethylenamine mandelate. Many other names

CAS Registry Number: 587-23-5

Biological Use/Importance: Urinary antibacterial

Physical Description: Cryst.

Melting Point: Mp 128-130°

Sigma: H9642

>>**Derivative:** Compd. with 2-Hydroxy-5-sulfobenzoic acid (1:1)

Synonym(s): Hexal. Hexalet. Sulfhexet. Uropuret

CAS Registry Number: 20480-93-7

Biological Use/Importance: Urinary antibacterial

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 190 dec.° (monohydrate)

>>**Derivative:** Compd. with CHBr₃

Synonym(s): Brometenamine, INN

CAS Registry Number: 15585-71-4

Development Status: No longer marketed

>>**Derivative:** Compd. with 5-Oxo-1,3-dioxolane-4,4-diacetic acid (1:1)

Synonym(s): Citrohexamine. Hexacitramine. Helmitol. Uropurgol. Many other names

CAS Registry Number: 6190-43-8

Biological Use/Importance: Urinary antibacterial agent

Physical Description: Cryst.

Melting Point: Mp *ca.* 175° (dec.)

Sigma: H5508

References:

- Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **1**, 378B, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 596B, (*nmr*)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 471D, (*ir*)
Butlerow, A., *Annalen*, 1860, **115**, 322, (*synth*)
Dickinson, R.G. *et al.*, *J.A.C.S.*, 1923, **45**, 22
Welcher, F.J., *Organic Analytical Reagents*, Van Nostrand, New York, 1947, **3**, 124, (*synth, use*)
Ger. Pat., 1951, 824 055; *CA*, **49**, 7597, (*Mandelamine*)
Settimj, M., *CA*, 1952, **46**, 1965, (*Citrohexamine*)
Vogel, A.I., *Textbook of Qualitative Inorganic Analysis*, Longmans, London, 1961, (*use*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1974, **4**, 243
Solinas, M. *et al.*, *J. Chem. Phys.*, 1974, **44**, 1678, (*ir, Raman*)
Webb, G.A. *et al.*, *Org. Magn. Reson.*, 1976, **8**, 102, (*pmr, cmr*)
Gleckman, R. *et al.*, *Am. J. Hosp. Pharm.*, 1979, **36**, 1509
Alonso, F. *et al.*, *CA*, 1979, **90**, 127487, (*Mandelamine*)
Bulusu, S. *et al.*, *Org. Magn. Reson.*, 1981, **16**, 52, (*cmr, N-15 nmr*)
Chou, M. *et al.*, *Acta Cryst. C*, 1987, **43**, 322, (*cryst struct*)
Hatfield, G.R. *et al.*, *Macromolecules*, 1987, **20**, 608, (*curing agent*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 530, (*synonyms*)
Merck Index, 11th edn., 1989, Nos. 5881-5883; 5885, (*comps*)
Ribár, B. *et al.*, *Acta Cryst. C*, 1991, **47**, 1987, (*cryst struct, methiodide*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 173
Patty's Ind. Hyg. Toxicol. (3rd Rev. edn.), Vol. 2, Wiley, 1980, 2696, (*tox*)
Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2325
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, HEI500