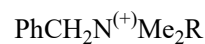




>>Entry Name: Benzalkonium(1+)



General Statement: R represents a mixt. of alkyl groups ($\text{C}_8\text{H}_{17} \rightarrow \text{C}_{18}\text{H}_{37}$)

>>Derivative: Chloride

Synonym(s): Benzalkonium chloride, BAN, INN, JAN, USAN. Capitol. Cetanorm. **Conotrane**‡. Drapolene. Roccacal. Torbetol. Many other names

CAS Registry Number: 8001-54-5

Use/Importance: Topical antiseptic; cationic surfactant and germicide. Pharmaceutical aid (preservative)

Physical Description: Yellowish-white amorph. powder

Solubility: V. sol. H_2O , Me_2CO ; prac. insol. Et_2O

Hazard & Toxicity: Skin and severe eye irritant (human data). LD_{50} (rat, orl) 240 mg/kg. Exp. reprod. and fetotoxic effects

Aldrich: 23442-7

Fluka: 12062

Sigma: B6295

>>Derivative: Chloride, Br_2 adduct

Synonym(s): Callusolve

Use/Importance: Used in the topical treatment of warts; topical antiseptic

Solubility: Insol. H_2O

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 1122D, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1322A, (ir)

Kirk-Othmer Encycl. Chem. Technol., 3rd edn., Wiley, 1978, **7**, 815, (rev)

Cheng, K.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982, 480

Buttar, H.S., *J. Appl. Toxicol.*, 1985, **5**, 398, (tox)

van Berkel, M. *et al.*, *Hum. Toxicol.*, 1988, **7**, 191, (tox, man)

Handbook of Pharmaceutical Excipients, 2nd edn., (eds. Wade, A. *et al.*), American Pharmaceutical Association/Pharmaceutical Press, 1994, 27-29

Martindale, The Extra Pharmacopoeia, 31st edn., Pharmaceutical Press, 1993, 1117

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AFP250