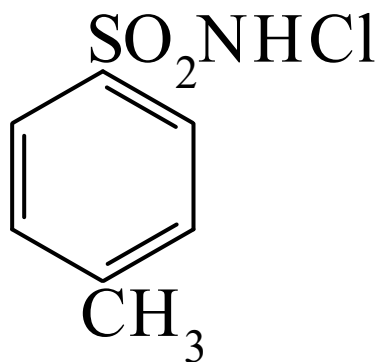




>>Entry Name: ***N*-Chloro-4-methylbenzenesulfonamide**, 9Cl
Synonym(s): *N*-Chloro-*p*-toluenesulfonamide. *p*-Toluenesulfonchloramide



CAS Registry Number: 144-86-5

Molecular Formula: C₇H₈ClNO₂S
Molecular Weight: 205.664
Accurate Mass: 204.996426
Percentage Composition: C 40.88%; H 3.92%; Cl 17.24%; N 6.81%; O 15.56%; S 15.59%
Biological Use/Importance: Antibacterial agent, disinfectant
Hazard & Toxicity: Explodes when heated to 175-180°

>>Derivative: Na salt

Synonym(s): Tosylchloramide sodium, INN. Acti-chlore. Chloramine T. Chloraseptine. Dygerma. Hydrosept. Many other names

CAS Registry Number: 127-65-1

Extra CAS Registry Numbers(s): 7080-50-4

Use/Importance: Used for radioiodination of peptides. Oxidising agent used in photometric detn. of NH₃, CN⁽⁻⁾, SCN⁽⁻⁾
Biological Use/Importance: Antibacterial agent
Melting Point: Mp 180 dec.° (as trihydrate)
Hazard & Toxicity: Exploded on storage in closed container. Occup. sensitiser. Can cause asthma. Irritant

Sigma: C9887

>>Derivative: Mg salt

Synonym(s): Jovanyl. Septamid

CAS Registry Number: 8042-21-5

Biological Use/Importance: Wound disinfectant, deodorant

>>Derivative: *N*-Me

CAS Registry Number: 2350-10-9
Molecular Formula: C₈H₁₀ClNO₂S
Molecular Weight: 219.691
Accurate Mass: 219.012076
Percentage Composition: C 43.74%; H 4.59%; Cl 16.14%; N 6.38%; O 14.57%; S 14.60%
Physical Description: Prisms (CHCl₃/petrol)
Melting Point: Mp 74°. Mp 82°
Other: PB C15306

References:

- Chattaway, F.D., *J.C.S.*, 1905, **87**, 145, (*synth*)
Dietzel, R. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1928, **266**, 173, (*props*)
Feldhoff, R.A., *Pharm. Ztg.*, 1929, **74**, 756, (*rev, props*)
Welcher, F.J., *Organic Analytical Reagents*, Van Nostrand, 1948, **4**, 316, (*user*)
Heintzelman, R.W. *et al.*, *Synthesis*, 1976, 731, (*synth*)
Bourne, M.S. *et al.*, *Br. Med. J.*, 1979, **2**, 10, (*tox*)
Hutchins, M.G. *et al.*, *J.O.C.*, 1982, **47**, 4947, (*synth*)
Bremner, D.H., *Synth. Reagents*, 1985, **6**, 9, (*rev, photochem*)
Olmstead, M.P. *et al.*, *Inorg. Chem.*, 1986, **25**, 4057, (*cryst struct*)
Kirk-Othmer Encycl. Chem. Technol., 4th edn., Wiley, 1991, **5**, 921, (*rev*)
Gottardi, W., *Arch. Pharm. (Weinheim, Ger.)*, 1992, **325**, 377, (*tox*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 788
Chen, P. *et al.*, *Anal. Biochem.*, 1994, **219**, 159, (*use*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., Akademie-Verlag, 1994, 784, (*synonyms*)
Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2569