Chlorphenesin

I, acetone, chloroform, carbon tetrachloride,

Kraft Chemical

en.

ihylsilane. [994-30-9] Triethylchlorosilane; ESCI; Et₃SiCl. C₆H₁₅CISi; mol wt 150.72. Cl 23.52%, Si 18.63%. Silylating reagent is to introduce the triethylsilyl (TES) protectn triethylethoxysilane: A. Ladenburg, Ann. hexaethyldisiloxane: P. A. Di Giorgio et al., .380 (1946); from β -chloroethyltriethylsilane: ., 2869 (1948). Use in protection of hydroxyl et al., Helv. Chim. Acta 64, 2002 (1981); W. odriguez, J. Org. Chem. 52, 598 (1987). Adications: S. Danishefsky et al., J. Am. Chem. .Y. Fujii et al., J. Organomet. Chem. 692, 375 urots in Encyclopedia of Reagents for Organic uette, Ed. (Wiley, New York, 1995) pp 1225-

H₃C Si CH₃ H₃C CI

7°. d²⁰ 0.8967. n²⁰_p 1.4314. Flammable. Corttly with water. Flash point, closed cup: 86°F protic solvents. rathetic organic chemistry.

trimethylsilane. [75-77-4] Trimethylchloane chloride; trimethylsilicon chloride; trimeth-I₉ClSi; mol wt 108.64. C 33.17%, H 8.35%, Cl

Silylating reagent and Lewis acid catalyst in emistry. Prepn from trimethylsilane and chlo-3. V. De G. Walden, J. Am. Chem. Soc. 66, 842 1 chloride: H. S. Booth, J. F. Suttle, *ibid.* 68, nexamethyldisiloxane and ammonium chloride: *id.* 70, 433 (1948): Crystal structure: J. Busch-*Trystallogr.* C56, 121 (2000). Thermodynamic ter, C. T. Mortimer, J. Chem. Soc. A 1966, 514. ns: G. A. Olah et al., J. Org. Chem. 44, 4272 *t al.*, Tetrahedron Lett. 31, 6677 (1990); J.-M. h. Commun. 27, 739 (1997); J. Eras et al., J. Org. 002); in catalysis: P. Verma, S. Ray, Indian J. 990); L.-W. Xu et al., Synth. Commun. 37, 3095 tion and gas chromatography: J. Eras et al., J. 7, 157 (2004).



Strong camphor-like odor. Fumes slightly in air. osive. Reacts violently with water. bp 57.3°. fp ittle); also reported as fp -40° (Taylor, Walden); hmann). d_4^{50} 0.846; d^{20} 0.8581. n_D^{20} 1.3884. Flash $-0.4^{\circ}F(-18^{\circ}C)$. Heat of formation: -91.9 ± 0.8

o introduce the trimethylsilyl group in organic syn-In compd derivitization to increase volatility for hromatography. In prepn of anhydrous solns of

roxine. [773-76-2] 5,7-Dichloro-8-quinolinol; ydroxyquinoline; Capitrol. C₉H₅Cl₂NO; mol wt %, H2.35%, Cl 33.12%, N 6.54%, O 7.47%. Prepd i-quinolinol: Hebebrand, Ber. 21, 2977 (1888); F. nic Analytical Reagents vol. I (Van Nostrand, 1947) Crystals from alc, mp 179-180°. Soluble in benzene, acetone; slightly sol in cold alcohol, acetic acid; readily sol in sodium and potassium hydroxides and in acids, forming yellow solns. USE: Analytical reagent.

THERAP CAT: Antiseborrheic.

2182. Chloroxylenol. [88-04-0] 4-Chloro-3,5-dimethylphenol; p-chloro-m-xylenol; 4-chloro-3,5-xylenol; parachlorometaxylenol; 2-chloro-m-xylenol; 2-chloro-5-hydroxy-m-xylene; 2-chloro-5-hydroxy-1,3-dimethylbenzene; Benzytol; Dettol. CgHgClO; mol wt 156.61. C 61.35%, H 5.79%, Cl 22.64%, O 10.22%. Prept by treating 3,5-dimethylphenol with Cl₂ or SO₂Cl₂: Lesser, Gad, Ber. 56, 974, 976 (1923); von Auwers et al., Chem. Zentralbl. 1924, II, 2267; C.A. 19, 2339 (1925); Gladden, Cocker, US 2350677 (1944).



Crystals from benzene, mp 115.5°. Phenolic odor. Volatile with steam. bp 246°. One gram dissolves in 3 liters of water at 20°. More stable in hot water. Soluble in 1 part of 95% alcohol, ether, benzene, terpenes, fixed oils, in solns of alkali hydroxides.

USE: Antiseptic and germicide; for mildew prevention. Claimed to be about 60 times as potent as phenol.

THERAP CAT: Antibacterial; antiseptic (topical and urinary). THERAP CAT (VET): Antiseptic (topical).

2183. Chlorozotocin. [54749-90-5] 2-[[[(2-Chloroethyl)nitrosoamino]carbonyl]amino]-2-deoxy-D-glucose; 2-[3-(2-chloroethyl)]-3-nitroso-3-(D-glucos-2-yl)urea; DCNU; NSC-178248. C₉H₁₆-ClN₃O₇; mol wt 313.69. C 34.46%, H 5.14%, Cl 11.30%, N 13.40%, O 35.70%. Chloroethylnitrosourea derivative with antitumor activity. Similar to carmustine, lomustine, nimustine, ranimustine, *q.q.v*; 2-chloroethyl analog of streptozotocin, *q.v.* Synthesis: H. D. Burns et al., Org. Prep. Proced. Int. 6, 259 (1974); T. P. Johnston et al., J. Med. Chem. 18, 104 (1975). Pharmacology: T. Anderson et al., Cancer Res. 35, 761 (1975); P. S. Schein et al., Cancer Treat. Rep. 60, 801 (1976). Decomposition in aqueous media: J. A. Montgomery et al., J. Med. Chem. 18, 568 (1975).



Ivory colored crystals, mp 147-148° (dec with the evolution of gas), (Burns, Heindel). Also reported as mp 140-141° (dec), (Johnston). Sol in water.

Caution: This substance is reasonably anticipated to be a human carcinogen: *Report on Carcinogens, Twelfth Edition* (PB2011-111646, 2011) p 328.

THERAP CAT: Antineoplastic.

2184. Chlorphenesin. [104-29-0] 3-(4-Chlorophenoxy)-1,2propanediol; p-chlorophenyl α -glyceryl ether; Adermykon; Mycil. C₉H₁₁ClO₃; mol wt 202.63. C 53.35%, H 5.47%, Cl 17.49%, O 23.69%. Prepd by condensing equimol ants of p-chlorophenol and glycidol in the presence of a tertiary amine or a quaternary ammonium salt as catalyst: Bradley, Forrest, GB 628497 (1949 to British Drug Houses).







Official Monographs

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To: Rick K	x: 708.345.4005	
Re: Californian and Sment		
Pages: 1	Cc: Bob	
		· 10-

Rick:

Here is a sound formula you may pass on to Tome Town CRI. This will yield a clear solution that can be mist-sprayed onto hard services to effectively sanitize them within 30 seconds contact time, drying to a clear, non-greasy film. It has a pH range of 6.0 - 7.0 (neutral.)

arread set with the manual room He and a		•	All All
Ingredient	%w/w	Source	All Contractions
Water (city)	q.s.	n/a	<i>fi</i>
Isopropanol 99%	25.00	Kraft Chemical	
Propylene glycol USP	7.00	Kraft Chemical	
TEA Lauryl Sulfate 40%	7.00	Kraft Chemical	·
Phenoxyethanol	1.00	Kraft Chemical	۰. د
PCMX	3.00	Kraft Chemical	

Mix all ingredients together at RT until a clear solution is apparent. This product should be the considered combustible, not flammable, given the level of IPA.

Notes: the original British Pharmocopacia standard used 5.00% w/w PCMX, along with IPA, potassium oleate or riconoleate (soap), terpineol and water. This would be fine if you are sanitizing military latrines, which the original formula was designed for, but since Mr. Karon stated that this product is likely to be used in areas of human contact, this will do better. There is a boost in bacteriostatic efficacy when you combine chloroxylenol with anionic lauric surfactants such as TEALS; likewise with phenoxyethanol.

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