demonstrated. The effects of polyoxyethylene chain length, surfactant concentration and the presence of additives on the cloud point and phenol index values have been compared. The results are interpreted as the change of the effective HLB of polyoxyethylene nonionic surfactants.

SURFACTANTS AND POLYMERS–MATERIALS FOR THE TERTIARY PETROLEUM EXTRACTION IN HIGHLY SALINE SYSTEMS. M. Akstinat. *Tenside Deterg. 17*(1), 1-9 (1980). The importance and necessity of tertiary petroleum extraction methods is stressed. There are detailed discussions of the choice of polymers and surfactants, as well as various suitability criteria for viscous flooding media.

THE ANALYSIS OF CARBOXYMETHYLATED ETHOXYLATES. E. Kunkel. *Tenside Deterg. 17*(1), 10-2 (1980). Carboxymethylated ethoxylates can be analytically determined by means of thin-layer chromatography. After separation on the thin layer chromatography plate, the substance spots, dyed with Dragendorff reagent are quantitatively assessed through measurement of remission. As an alternative to thin-layer chromatography it is also possible to carry out a Dragendorff semi-micro precipitation with photometric evaluation of the bismuth content.

QUANTITATIVE DETERMINATION OF NON-IONIC SURFACTANTS IN WATER AND EFFLUENT BY ATOMIC ABSORPTION SPECTROSCOPY. J. Chlebicki and W. Garncarz. *Tenside Deterg.* 17(1), 13-7 (1980). Analytical methods for the determination of nonionic surfactants in natural waters are briefly reviewed. A new method for the determination of these compounds has been developed, in which advantage is taken of the precipitation of complex compounds on nonionic surfactants with molybdophosphoric acid. The acid is added in excess to a sample of pretreated water and the unreacted acid is subsequently determined by the atomic absorption spectraoscopic method. A calibration curve was obtained with oxyethylated nonylphenol as a standard.

CHEMICAL STRUCTURE AND SURFACE ACTIVITY. PART II. SYNTHESIS AND SURFACE PROPERTIES OF2-ALKYL-4-HYDROXYMETHYL-1,3-DIOXOLANES AT THE OIL-WATER INTERFACE. B. Burczyk and L. Weclas. *Tenside Deterg.* 17(1), 21-4 (1980). 2-Alkyl-4-hydroxymethyl-1,3-dioxolanes were synthesized by transacetalization of 2,2-dimethyl-1,3 dioxolane with straight chain aliphatic aldehydes and subsequent hydrolysis of the acetates obtained. The interfacial tension of these products in rape seed oil and paraffin oil was determined by the drop weight method. The surface activity of alkyldioxolanes increase in systems where the oil phase is less polar.

PRECIPITATION OF INSOLUBLE SALTS ON FABRICS LAUNDERED IN HARD WATER IN THE PRESENCE OF DIFFERENT ALKALIS AND BUILDERS. II. TWO-COMPONENT FORMULATIONS BASED ON SODIUM CARBONATE. S.V. Vaeck and V. Merken. *Tenside Deterg.* 17(1), 25-6 (1980). Cotton and polyester-cotton fabrics were laundered 20 times in hard water (360 ppm) at 85C in the presence of an anionic surfactant and 5g/l of a builder mixture containing sodium carbonate and various proportions of sequestering and dispersing agents. Additions of the dispersing agent sodium polyacrylate also reduce the insoluble salt build-up produced by sodium carbonate.

INFLUENCE OF PROMOTORS ON PHOTOCHEMICAL PROCESS OF SULPHOXIDATION OF N-PARAFFINS IN AQUEOUS SYSTEM. A. Kowalski et al. *Tenside Deterg.* 17(1), 27-9 (1980). The effect of promotors on the photochemical process of sulphoxidation of the fraction C_{14}-C_{17} of n-paraffins in the presence of water was studied. The best promotors in respect to the increase of reaction rate and the product composition were found to be: chloroform, pentachlorethane and acetic acid anhydride added at the rate of 2%v/v.

PRIMARY AND TOTAL BIODEGRADATION OF LINEAR ALKYLBENZENESULFONATES. C. Divo and G. Cardini. *Tenside Deterg.* 17(1), 30-6 (1980). The degradation of single linear alkylbenzenesulfonates was studied using a microorganism able to utilize synthetic surfactants as the sole carbon source at concentrations of about 1 gram per liter. The process was followed by parallel determination of the methylene blue active substance and of the total dissolved organic carbon. The microorganism attacks and rapidly degrades part of the alkyl chain, with the production of sulfophenyl-monocarboxylic acids, which were isolated and characterized.

Calendar

AOCS NATIONAL MEETINGS

Annual Meeting, 1981: May 17-21, Fairmont Hotel, New Orleans, LA.

Annual Meeting, 1982: May 2-6, Sheraton Centre, Toronto, Ontario, Canada.

Annual Meeting, 1983: May 8-12, Chicago Marriott, Chicago, IL.

AOCS SHORT COURSES

AOCS Short Course on Soaps and Detergents, Sept. 14-17, 1980, Hershey, PA.

1980

1980 Conference on International Cosmetic Regulations, Sept. 27, 1980, Venice, Italy, sponsored by the International Federation of Societies of Cosmetic Chemists.

Symposium: "Sensory Evaluation of Product Performance," Oct. 20-22, 1980, sponsored by the Society of Cosmetic Chemists, Hilton Hotel, Stratford-upon-Avon, England. Contact: M. Callingham, 56 Kingsway, London WC2B 6DX, England.

Eighth Residential Postgraduate Course in Cosmetic Science, Nov. 9-15, 1980, sponsored by the Society of Cosmetic Scientists, Palace Court Hotel, Bournemouth, England. Contact: M. Callingham, 56 Kingsway, London WC2B 6DX, England.

Society of Cosmetic Chemists Annual Scientific Meeting, Dec. 11-12, New York City. Contact: Program Co-chairmen, Robert L. Goldemberg or Harvey S. Schnur, c/o Society of Cosmetic Chemists, 1995 Broadway, Suite 1701, New York, NY 10023.

1981

The Soap and Detergent Association Industry Convention, Jan. 28-Feb. 1, 1981, Boca Raton Hotel & Club, Boca Raton, FL.

"Color Technology for Management," June 16-17, 1980, sponsored by Rensselaer Color Measurement Laboratory, Rensselaer Polytechnic Institute, Troy, NY. Contact: Office of Continuing Studies, Rensselaer Polytechnic Institute, Troy, NY 12181.

"Advances in Color Technology," June 23-27, 1980, sponsored by Rensselaer Color Measurement Laboratory, Rensselaer Polytechnic Institute, Troy, NY Contact: Office of Continuing Studies, Rensselaer Polytechnic Institute, Troy, NY 12181.

Fourth International Conference on Surface and Colloid Science, July 5-10, 1981, Jerusalem, Israel. Contact: A.S. Kertes, Institute of Chemistry, The Hebrew University, Jerusalem, Israel.

Chemical Marketing Research Association national meeting, Sept. 20-23, 1981, Dunfey's, Hyannise, MA. Contact: CMRA, 139 Chestnut Ave., Staten Island, NY, 10305 (tele: 212 727-0550).

1982

The Soap and Detergent Association Industry Convention, Jan. 27-31, 1982, Boca Raton Hotel & Club, Boca Raton, FL.

1983

The Soap and Detergent Association Industry Convention, Jan. 26-30, 1983, Boca Raton Hotel & Club, Boca Raton, FL.

1984

The Soap and Detergent Association Industry Convention, Jan. 1984, Boca Raton Hotel & Club, Boca Raton, FL. □