

exchange with aqueous alkali. [6-²H₂] and [5-²H₂] oleates were obtained from methyl 5-tetradecynoate, semihydrogenation, deuterium exchange at C-2 and two malonate extensions gave [6-²H₂]-oleate; reduction with lithium aluminum deuteride, two malonate extensions and semihydrogenation gave the [5-²H₂] ester. [4-²H₂] and [3-²H₂] oleates were both obtained from methyl 7-cis-hexadecenoate, exchange of the α protons and chain extension gave the [4-²H₂] ester and reduction with lithium aluminum deuteride and chain extension gave the [3-²H₂] ester.

OXIDATIVE RANCIDITY IN STORED GROUND TURKEY AND BEEF. M.T. Younathan, Z.M. Marjan and F.B. Arshad (School of Home Economics, Louisiana State Univ., Baton Rouge, LA 70803 and Universiti Kebangsaan Malaysia, Peti Surat 2418, Kuala Lumpur) *J. Food Sci.* 45(2), 274-5 (1980). Oxidative rancidity in stored cooked ground turkey and beef was determined by the thiobarbituric (TBA) test and sensory evaluations. There was an increase in rancidity with storage for all samples; however, beef treated with onion juice or textured vegetable protein showed a slower rate of deterioration. Rancidity in turkey was effectively controlled by hot-water extracts of eggplant tissue, peels of yellow onions, potatoes and sweet potatoes, although initial values were high. There were high positive correlations between TBA values and panel scores for cooked ground beef. Panel members were less sensitive to the rancid odor in turkey and failed to give low sensory ratings even though TBA numbers were high.

METHOD OF RECOVERING TALL OIL FROM ACIDULATION OF RAW TALL OIL SOAP. BASF Wyandotte Corp. *U.S.* 4,154,725. The acidulation of tall oil soap with sulphuric acid is carried out in presence of a terpolymer of allyl alcohol. (World Surface Coatings Abs. No. 452)

DISSOCIATION CONSTANTS OF LONG CHAIN FATTY ACIDS IN METHANOL/WATER AND ETHANOL/WATER MIXTURES. M.A. Rahman, A.K. Ghosh and R.N. Base. *J. Chem. Tech. Biotech.* 29(3), 158-62. (1979). The pKa values of lauric acid, myristic acid, palmitic acid and stearic acid in methanol/water and ethanol/water mixtures of different compositions at 313 K have been determined. The pKa values of the fatty acids have been found to increase with the alcohol content of the solvent. It has also been found that, in general, the pKa values in the ethanolic solvent are greater than those in the methanolic solvent. In a given solvent mixture the observed pKa value decreases in order of stearic acid, palmitic acid, myristic acid, lauric acid. (World Surface Coatings Abs. No. 449)

LAURIC ACID: REVIEW OF PROPERTIES AND USES. E.S. Lower. *Polym. Paint Col. J.* 169, No 4006, 817-20 (1979). Chemical and physical properties are tabulated; uses include pigment, resin and paint manufacture, corrosion prevention, lubrication and surfactant production. (World Surface Coatings Abs. No. 452)

A CENTURY OF DRYING OILS. N.F. Lythgoe. *Polym. Paint. Col. J.* 169, 507-12 (1979). Extracting and refining processes of the principal drying oils used by the paint industry, their availability and present trends in formulations are reviewed. The traditional linseed, soyabean and tung oils are being supplemented by oiticica oil, castor oil and such semi-drying oils as sesame seed, sunflower and tobacco seed oil. (World Surface Coatings Abs.No. 448)

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