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Characteristics of fatty alcohols from the sodium reduction of palm fatty acid methyl esters Abstract

Fatty alcohols have been prepared from palm oil and palm kernel oil methyl esters by the sodium reduction process. The crude palm oil based product was a light brown soft waxy solid with an alcohol content of 76.4% (alcohol yield of 85.9%) while the palm kernel oil based product was a transparent semi-solid with an alcohol content of 75.9% (alcohol yield of 88.3%). The purified alcohol products gave the distinct infra red bands at 3.0 ŵ, 3.3-3.6 ŵ, 6.9 ŵ and 9.5 ŵ characteristic of long chain alcohols and refractive indices N sub (D) sup (27.5 deg C) of 1.4590 and 1.4505 for the palm oil and palm kernel oil based products respectively. The end use potentials of the products are discussed.