

Characteristics of fatty alcohols from the sodium reduction of tucum fatty acid m

Characteristics of fatty alcohols from the sodium reduction of tucum fatty acid methyl esters
[Astrocaryum vulgare]

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Abstract:

Fatty alcohols have been prepared from tucum pulp oil and kernel fat based fatty acid methyl esters. The crude pulp oil based alcohol was a light brown soft waxy solid with an alcohol content of 77.4% (alcohol yield of 86.1%) while the kernel oil based product was a light brown waxy solid with an alcohol content of 68.8% (alcohol yield of 80.0%). The purified alcohol products gave the distinct infrared bands at 30 micron, 3.3-3.6 micron, 6.9 micron and 9.6 micron characteristic of long chain alcohols and refractive indices n_D^{27} of 1,460 and 1,448 for pulp oil and kernel oil based products respectively. The end use potentials of the products are discussed.