

## Extraction and Characterization of Kernel Oil of *Acrocomia Totai*

**Authors :** Gredson Keif Souza, Nehemias Curvelo Pereira

**Abstract :** Kernel oil from Macaúba is an important source of essential fatty acids. Thus, a new knowledge of the oil of this species could be used in new applications, such as pharmaceutical drugs based in the manufacture of cosmetics, and in various industrial processes. The aim of this study was to characterize the kernel oil of macaúba (*Acrocomia Totai*) at different times of their maturation. The physico-chemical characteristics were determined in accordance with the official analytical methods of oils and fats. It was determined the content of water and lipids in kernel, saponification value, acid value, water content in the oil, viscosity, density, composition in fatty acids by gas chromatography and molar mass. The results submitted to Tukey test for significant value to 5%. Found for the unripe fruits values superior to unsaturated fatty acids.

**Keywords :** extraction, characterization, kernel oil, *acrocomia totai*

**Conference Title :** ICCE 2015 : International Conference on Chemical Engineering

**Conference Location :** Stockholm, Sweden

**Conference Dates :** July 13-14, 2015