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UTILIZATION OF MICROWAVE IN ATSIRI OIL EXTRACTION FROM THE CANANGA FLOWER

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ABSTRACT. Essential oil is one of the commodities that is always increasing every year, but this potential is not accompanied by good quality and process efficiency. One effort that can be done is by optimizing the operating conditions and the distillation process used through the use of microwaves from the microwave. This research was conducted to study the extraction process of essential oils by microwave hydrodistillation method on the effect of power and time. The results showed that microwaves generated from the microwave can increase the yield of each increase in power used, this is also seen in the amount of time used. At a power of 450 Watts, a temperature of 200 minutes and a mass of 200 grams is a good operating condition because it produces the highest yield of 0.3219 and the resulting density has also met SNI requirement

Keyword: essential oil, cananga oil, microwave, microwave hydrodistillation