Abstract

Cananga oil is one kind of essential oils often called the the etheric oil or oil fly. Essential oils have the properties of the volatile composition and boiling points are different. Cananga oil refining process can be done in various ways, among which water distillation, steam distillation and the water-steam distillation. The purpose of this experiment is the essential oils of Cananga flowers by steam distillation using the diffusion method on a variable time that has.

The experiment was conducted using raw materials as much as 2 kg Cananga flowers on a variable time in the kettle for 4, 6, and 8 hours. Preparation phase to fill the boiler up to full and raw materials entering into the kettle flute as much as 2 kg. Stage distillation by steam flow from boiler to kettle flutes from the top. Results distillate distilled out from under the kettle flutes into the condenser in accordance with the specified variable. The results of distillate being stored out of the condenser in the form of oil and water. Phase separation is done by inserting the distillate in the form of oil and water separator into the channel to take the oil.

Conclusion of product innovation that has been done is the amount of essential oils of cananga flowers for 4 hours, 6 hours, and 8 hours was 3.3 ml, 6.6 ml, and 7.3 ml. The number of resulting yield is 0.2%, 0.33%, and 0.365%.

**Key word**: cananga flower, distillation steam diffusion, essential oil.