

DETERMINATION OF VOLATILE SUBSTANCES

Method WHO/M/24
Approved 25 September 1989

1. Outline of method

The sample is evaporated at $30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 7 hours, and the residue is weighed.

2. Apparatus

- Glass Petri dish of 5 cm in diameter and 1.2 cm high.
- Oven thermostatically controlled at $30^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

3. Procedure

Weigh to the nearest 0.1 mg (\underline{x} g) a Petri dish maintained at $30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 1 hour. By means of a pipette, pour about 0.3 mL of sample into the dish and reweigh immediately (\underline{y} g). Place the dish in the oven at $30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 7 hours and reweigh (\underline{z} g).

4. Calculation

$$\text{Volatile substances (g / kg)} = \frac{\underline{y} - \underline{z}}{\underline{y} - \underline{x}} \times 1000$$

where \underline{x} = mass of the Petri dish (g)
 \underline{y} = mass of the Petri dish and the sample (g)
 \underline{z} = mass of the Petri dish and the residue (g)