

A modified Jaeger's method for measuring surface tension

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Abstract

A static method of measuring the surface tension of a liquid has been achieved. The method involves the modification of the standard Jaeger's method, by replacing the pressure source in the Jaeger's method with a variable pressure head. This consists of a bell-shaped funnel upturned over a liquid reservoir mounted on a vertical transport. By this improvement, we can obtain stationary air bubbles, and thus small variations in the maximum excess pressure which reflect small changes in the surface tension resulting from controllable external parameters.

Theory

The need to investigate the dependence of surface tension on some controlled physical parameters like temperature, electric field intensity, etc. has resulted in modifying the standard Jaeger's method for the measurement of surface tension to obtain stable air bubbles. In the normal Jaeger's method (Fig. 1), the bubbles are obtained by letting a stream of liquid drops into an air pressure

chamber. As a result, air bubbles are formed continuously at the end of a capillary tube, below the surface of a liquid under investigation. This method is a maximum pressure method.

When a capillary placed inside a liquid is blown gradually, an air-liquid interface results in the liquid which is a hemisphere when there is a maximum difference in the pressures on both sides of the interface according to Laplace's equation:

$$p_1 - p_2 = 2\gamma/R \quad (1)$$

where p_1 and p_2 are the pressure inside and outside the hemisphere, R the radius of the capillary tube and hence the bubble, and γ is the surface tension of the liquid.

Thus the maximum pressure difference p_{max} is obtained by subtracting pressure at the bottom of the capillary in the liquid phase from the measured value of the maximum pressure required to produce this state. In the standard Jaeger's method, since a stream of air bubbles is obtained instead of stationary bubbles, what we actually measure is an average value of the maximum

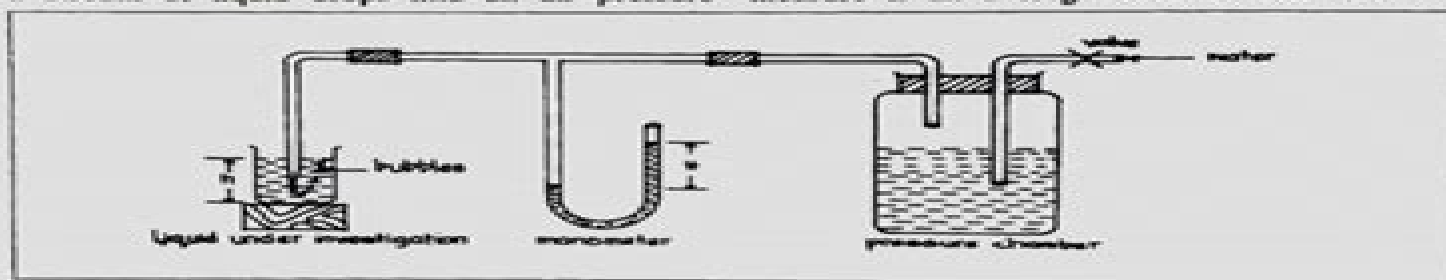


Figure 1. Standard Jaeger's method.

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