Datum: Klasse:



The size of particles

Topic: Oil drop experiment

Materials: large glass dish, water, sulphur powder, buret with a solution of oleic acid in petrol, plastic foil, pen, ruler, beaker

Sketch:



Find a way of how to calculate the size of one particle of oleic acid ! Help:

• area that is covered by the oleic acid:

 $A = __cm^2$

• volume of one drop of the solution:

V (1 drop) = 1 cm³ : number of drops in step $b = ___ cm³$

- Volume of oleic acid in one drop of the solution = ?
- Height of the stain = height of a particle = ?

Vocabulary help:

buret: Bürette; solution: Lösung; oleic acid: Ölsäure; surface: Oberfläche; layer. Schicht; oil stain: Ölfleck; area: Fläche; to measure: (aus-)messen; height. Höhe.