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Phone: +91-7082934803

Product Name :

Properties of Shampoo

Product Code :

SLE/CH/172



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Description :

Properties of Shampoo (Product Code: SLE/CH/172) turns an everyday bathroom product intoa structured chemistry investigation: students learn what several common shampoo ingredientsdo, then compare three different shampoos for viscosity, pH, foaming, oil handling and dirtdispersion. It suits middle and secondary school chemistry and is a practical science kit forstudents in India studying mixtures, surfactants and consumer chemistry. The kit is supplied asschool chemistry lab equipment in India by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala.

Specifications

Parameter	Detail
Properties tested	Relative viscosity, pH, flash-foam formation and retention, oil emulsification, contaminant-dispersion ability
Shampoos supplied	Three different shampoos (#1, #2, #3), 30 ml each
Class capacity	Enough materials for fifteen groups
Documentation	Teacher’s Manual and Student Study Guide copymasters

Kit contents:

- 30 ml Shampoo #1
- 1 x 30 ml Shampoo #2
- 1 x 30 ml Shampoo #3
- 45 Disposable Medicine Cups
- 45 Polystyrene Test Tubes
- 3 Plastic Centrifuge Tube
- 1 x 30 ml Ink, Black, 10%
- 1 x 30 ml Vegetable Oil
- 1 Pkg/50 Universal Indicator Strips
- 1 Pkg/45 Graduated Plastic Pipettes
- 1 Pkg/25 Copper Balls

Typical Use

Each group works through a set of short stations. Universal indicator strips give a quick pH reading for each shampoo, and the results often surprise students who assume all shampoos are neutral. Shaking a measured amount in a test tube shows how much foam forms at once and how long it lasts, while adding vegetable oil shows which formulation holds oil in an emulsion best. A few drops of the black ink act as simulated dirt, so the class can see which shampoo keeps the contaminant spread through the water instead of letting it settle.

Relative viscosity is compared by timing a copper ball as it falls through each shampoo, giving a numerical result that can be graphed. Because every test uses small volumes dispensed with graduated pipettes, groups get comparable data and clean-up is quick. For extension work, students can bring a shampoo from home and test it against the three supplied samples, checking each reading with pH indicator paper or the strips provided.

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