Shampoo

Shampoo is cleaning formulation of Chemicals
It has ability to surround oily material and rinsed away by
water from hair scalp.

Characteristics of good shampoo

Pleasing foam
Ease of rinsing
Minimal skin and eye irritation (Low toxicity)
Thick and creamy feeling
Pleasant fragrance
Good Biodegradability
Slight acidic
No damage to hair or repair of already damaged hair

Aim: To carry out the preparation of shampoo.

Chemical Required:

- Steric Acid
- * Lanolin
- * Sodium lauryl sulphate

sebaceous glands originates as a unique substance secreted by sheep from the LANOLIN is highly refined & purified natural grease which

Molecular Weight Lanolin Acids Esters of high molecular weight Lanolin Alcohols and High Lanolin is a complex mixture of Esters, Di-Esters & Hydroxyl

been absorbed by the hair, lanolin works as a humectant retain moisture and protecting it against breakage. Once it has Lanolin readily penetrates the shaft of the hair, helping it to

Sodium Lauryl Sulfate (SLS)

products. cleaning products, cosmetic and personal care It is anionic surfactants and a widely used surfactant in

shampoo easily makes a lather in the shower, there's a good chance it contains sulfates lathering effect to remove oil and dirt from hair. If The purpose of Sodium Lauryl Sulfate is to create a

Stearic Acid

without dulling or weighing it down. acid is ideal as an emulsifying agent and great for hair products to coat, condition and protect the hair shaft commonly found in vegetables and animal fats. Stearic This odorless, colorless, wax-like fatty acid is

Procedure:

- Take 50 ml water in a beaker and 5 g of sodium lauryl sulphate.
- Add 1.3 g of stearic acid to this and heat up to 80 °C till homogeneous mixture is obtained.
- In another test tube dissolve 0.5 g of NaoH and 15 ml of water heat on water bath.
- Pour the test tube in the beaker with stirring for 10 minutes
- Add 1.5 g of lanolin stir the mixture and heat for 10 minutes in water bath