

The final volume of Sodium Chloride Compound Mouthwash BP required (150 ml) will contain 2.25 g of Sodium Chloride BP. As 1 g of Sodium Chloride BP is soluble in 2.8 ml, 2.25 g is soluble in 6.3 ml ($2.25 \times 2.8 = 6.3$ ml).

Therefore a minimum of 16.5 ml of vehicle would be required to dissolve the 1.5 g of Sodium Bicarbonate BP and a minimum of 6.3 ml of vehicle would be required to dissolve the 2.25 g of Sodium Chloride BP in this example. For ease of compounding, choose a convenient volume of vehicle, for example, 30 ml, in which to dissolve the solute initially.

Tips

When choosing the amount of vehicle to use for dissolution, it is important to consider the total amount of each liquid ingredient in the preparation to ensure that only the correct amounts are added or the final product does not go over volume.

3. Weigh 2.25 g Sodium Chloride BP on a Class II or electronic balance.
4. Weigh 1.5 g Sodium Bicarbonate BP on a Class II or electronic balance.
5. Measure 75 ml of Double Strength Chloroform Water BP in a 100 ml conical measure.
6. Transfer approximately 30 ml of Double Strength Chloroform Water BP to a beaker; add the Sodium Bicarbonate BP and stir to aid dissolution.
7. When the Sodium Bicarbonate BP has dissolved, add the Sodium Chloride BP and stir to aid dissolution.
8. Transfer the solution from the beaker to a 250 ml conical measure.
9. Rinse out the beaker with some Double Strength Chloroform Water BP and add the rinsings to the conical measure.
10. Measure 3.75 ml of Concentrated Peppermint Emulsion BP using a 5 ml and a 1 ml syringe.
11. Add the Concentrated Peppermint Emulsion BP to the conical measure.
12. Make up to volume with the remaining Double Strength Chloroform Water BP and potable water.
13. Transfer to a 200 ml amber fluted bottle and label.

5. Choice of container

As this is an extemporaneously prepared mouthwash, the container of choice would be an amber fluted medical bottle with child-resistant closure.

6. Labelling considerations

a. Title

The product is official, therefore the following title would be suitable: 'Sodium Chloride Compound Mouthwash BP'.