

d. Flavouring when appropriate

Liquorice Liquid Extract BP, although a mild expectorant is mainly included for its flavouring and sweetening properties and its ability to disguise the taste of the Ammonium Chloride BP.

Method of compounding

1. Calculate the quantity of ingredients required to produce the final volume needed. As with Example 2.1, this calculation is best attempted in stages.
2. Weigh 5 g Ammonium Chloride BP accurately on a Class II or electronic balance.
3. Measure approximately 15 ml potable water and transfer to a beaker.
4. Add the Ammonium Chloride BP to the water in the beaker and stir until dissolved.
5. Transfer to a 50 ml conical measure with rinsings.
6. Measure 5 ml Liquorice Liquid Extract BP accurately in a 5 ml conical measure and add, with rinsings, to the 50 ml measure containing ammonium chloride solution.
7. Measure 2.5 ml Aromatic Ammonia Solution BP accurately in a syringe and transfer to the 50 ml measure containing the composite solution.
8. Make up to the final volume of 50 ml with potable water and stir.
9. Pack into a 50 ml amber flat medicine bottle and label.

Tips

As Ammonium Chloride BP is soluble 1 part in 2.7 parts of water, the 5 g required for this product would only dissolve in a minimum initial volume of 13.5 ml aqueous vehicle. Therefore we should choose a convenient volume of vehicle to dissolve the solute, for example, 15 ml.

Tips

The solution should be gently stirred to reduce the likelihood of frothing that can occur upon the addition of Liquorice Liquid Extract BP. Any resultant frothing will make the accurate reading of the final meniscus difficult.

Tips

Note that the syringe will not need rinsing as it is designed to deliver a measured volume.

5. Choice of container

A plain amber bottle with a child-resistant closure would be the most suitable as the preparation is a solution intended for internal use.

6. Labelling considerations**a. Title**

The product is official, therefore the following title would be suitable: 'Ammonium Chloride Mixture BP'.