

Oil : Water : Gum
4 : 2 : 1

60 ml of Arachis Oil BP is required, therefore 4 parts = 60 ml.

1 part will therefore be $60 \div 4 = 15$.

Therefore:

The amount of freshly boiled and cooled purified water needed
= $2 \times 15 \text{ ml} = 30 \text{ ml}$.

The amount of Acacia BP required = 15 g.

Therefore the product formula for 150 ml of Arachis Oil BP 40% emulsion is:

| | 150 ml |
|--|-----------|
| Arachis Oil BP | 60 ml |
| Acacia BP | 15 g |
| Concentrated Peppermint Emulsion BP | 2.5 ml |
| Double Strength Chloroform Water BP | 75 ml |
| Freshly boiled and cooled purified water | to 150 ml |

Interim formula for Double Strength Chloroform Water BP

| | |
|--|-----------|
| Concentrated Chloroform Water BPC 1959 | 5 ml |
| Freshly boiled and cooled purified water | to 100 ml |

4. Method of preparation

a. Solubility where applicable

Not applicable as no solids will need to be dissolved during the preparation of this product.

b. Vehicle/diluent

As emulsions are particularly susceptible to microbial contamination, Double Strength Chloroform Water BP will be used as the vehicle at a concentration of 50%. Freshly boiled and cooled purified water will be used as the remainder of the vehicle. As freshly boiled and cooled purified water is used in the product, it will also be used to make the Double Strength Chloroform Water BP.

c. Preservative

Double Strength Chloroform Water BP is included in this product as the preservative.

d. Flavouring when appropriate

The prescriber has requested that the emulsion is flavoured with peppermint flavouring. In this case, Concentrated Peppermint Emulsion BP is used as the source of the peppermint flavouring.

The following method would be used to prepare 150 ml of Arachis Oil BP 40% emulsion from the formula above: