

## **Reagents and Equipment**

Please use reagent pack **RGPK016** – includes Total Hardness Buffer - A014 Hardness Titrant - A010 Total Hardness Indicator Tablets - AT010

## Method

1. Filter the sample if necessary and select an appropriate sample size based on the required PPM per drop of HARDNESS TITRANT as follows:

Sample size	PPM per drop
5ml	80ppm
10ml	40ppm
20ml	20ppm
40ml	10ppm
80ml	5ppm

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- 2. Add 5 drops of Total Hardness Buffer per 20ml of sample (minimum 5 drops) and 1 Total Hardness Indicator Tablet. Crush and swirl to dissolve.
- 3. Moisten and wipe the tip of the Hardness Titrant dropper to ensure it is clean and then add one drop at a time to the sample (counting the number of drops) until the colour changes from scarlet to royal blue.

## EXAMPLE - for a 20ml sample

Total Hardness = Number of drops  $\times$  20

Number of drops of Hardness titrant

**Total Hardness** 

=18 x 20ppm

= 18

= 360ppm (as CaCO<sub>3</sub>)

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