

Total Hardness

1. Measure 100 ml of filtered boiler water from a graduated cylinder into a casserole.
2. Add 2 ml of Ammonia Buffer solution and add one Total Hardness Indicator tablet.
3. Crush the tablet with a flattened end of the stirring rod and stir vigorously until the tablet has dissolved. If any hardness salts are present the colour will turn wine-red.
4. Add EDTA solution, strength 0.02N from a 10 ml automatic burette, stirring the solution in the casserole vigorously, until the colour of the solution in the casserole begins to change to purple/blue. Continue adding EDTA solution slowly until the purple/blue colour persists. This is the end point of the titration.
5. Calculate the result as follows:
ppm Total Hardness (Total) = 10 x ml of 0.02N EDTA solution used
6. Record the result under in log sheet and/or in Waterproof.

