

## **IPT BOILER WATER HARDNESS**

### **Directions for use**

1. Rinse the measuring vessel with the water to be tested and fill up the 5 ml mark.
2. Add 1 drop of reagent A (2 drops in presence of high alkalinity) and swirl.
3. Add 1-2 drops of indicator and swirl. In presence of hardness higher than 3 ppm  $\text{CaCO}_3$  a wine red colour will appear (A blue color indicates absence of hardness. With hardness lower than 3 ppm the colour of the sample shifts from violet, to grey to pink).
4. Add titrant drop by drop, mixing after each addition. Count the drops until the colour changes from red to blue. Each drop corresponds to 10fr degree (10fr = 10 ppm  $\text{CaCO}_3$ ).
5. For softened water, fill the vessel to the 10 ml mark and add 2-4 drops of indicator. Each drop of titrant corresponds to 0,50fr degrees.