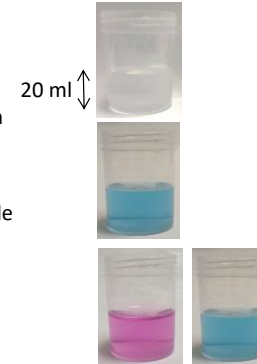


Test Procedure

1. Wash the beaker with the sample to be analysed. Then fill up to the 20 ml mark.
  2. **Add 1 drop of Solution A** and shake. If the water turns **blue**, this corresponds to a hardness <10ppm (no hardness or limescale in the water).
  3. If the water sample turns **purple**, **add Solution B drop by drop**, stirring until the colour of the sample changes to **blue**.
  4. **One drop of Solution B is equivalent to:** - 10 ppm of Calcium Carbonate (CaCO<sub>3</sub>).  
- 1°F (French degrees)
- Use the conversion table to calculate the hardness.



Information

- Each kit contains:
- 1 dropper of 10 ml of Solution A (Indicator)
  - 1 dropper of 30 ml of Solution B (Titrant)
  - 1 calibrated plastic beaker (50ml)
  - Instructions in English

Water hardness

- Drops:
- 1 - 4 very soft
  - 5 - 8 soft
  - 9 - 12 medium
  - 13 - 16 hard
  - ≥ 17 very hard

Note:  
ppm= mg/L CaCO<sub>3</sub>  
°F = French degrees  
°D = German degrees  
°E = English degrees

Conversion

| Drops | ppm | °F | °DH  | °E   | Drops | ppm | °f | °D   | °E   |
|-------|-----|----|------|------|-------|-----|----|------|------|
| 1     | 10  | 1  | 0,06 | 0,7  | 26    | 260 | 26 | 14,6 | 18,2 |
| 2     | 20  | 2  | 1,1  | 1,4  | 27    | 270 | 27 | 15,1 | 18,9 |
| 3     | 30  | 3  | 1,7  | 2,1  | 28    | 280 | 28 | 15,7 | 19,6 |
| 4     | 40  | 4  | 2,2  | 2,8  | 29    | 290 | 29 | 16,2 | 20,3 |
| 5     | 50  | 5  | 2,8  | 3,5  | 30    | 300 | 30 | 16,8 | 21,0 |
| 6     | 60  | 6  | 3,4  | 4,2  | 31    | 310 | 31 | 17,4 | 21,7 |
| 7     | 70  | 7  | 3,9  | 4,9  | 32    | 320 | 32 | 17,9 | 22,4 |
| 8     | 80  | 8  | 4,5  | 5,6  | 33    | 330 | 33 | 18,5 | 23,1 |
| 9     | 90  | 9  | 5,0  | 6,3  | 34    | 340 | 34 | 19,0 | 23,8 |
| 10    | 100 | 10 | 5,6  | 7,0  | 35    | 350 | 35 | 19,6 | 24,5 |
| 11    | 110 | 11 | 6,2  | 7,7  | 36    | 360 | 36 | 20,2 | 25,2 |
| 12    | 120 | 12 | 6,7  | 8,4  | 37    | 370 | 37 | 20,7 | 25,9 |
| 13    | 130 | 13 | 7,3  | 9,1  | 38    | 380 | 38 | 21,3 | 26,6 |
| 14    | 140 | 14 | 7,8  | 9,8  | 39    | 390 | 39 | 21,8 | 27,3 |
| 15    | 150 | 15 | 8,4  | 10,5 | 40    | 400 | 40 | 22,4 | 28,0 |
| 16    | 160 | 16 | 9,0  | 11,2 | 41    | 410 | 41 | 23,0 | 28,7 |
| 17    | 170 | 17 | 9,5  | 11,9 | 42    | 420 | 42 | 23,5 | 29,4 |
| 18    | 180 | 18 | 10,1 | 12,6 | 43    | 430 | 43 | 24,1 | 30,1 |
| 19    | 190 | 19 | 10,6 | 13,3 | 44    | 440 | 44 | 24,6 | 30,8 |
| 20    | 200 | 20 | 11,2 | 14,0 | 45    | 450 | 45 | 25,2 | 31,5 |
| 21    | 210 | 21 | 11,8 | 14,7 | 46    | 460 | 46 | 25,8 | 32,2 |
| 22    | 220 | 22 | 12,3 | 15,4 | 47    | 470 | 47 | 26,3 | 32,9 |
| 23    | 230 | 23 | 12,9 | 16,1 | 48    | 480 | 48 | 26,9 | 33,6 |
| 24    | 240 | 24 | 13,4 | 16,8 | 49    | 490 | 49 | 27,4 | 34,3 |
| 25    | 250 | 25 | 14,0 | 17,5 | 50    | 500 | 50 | 28,0 | 35,0 |