



# Dosage of vitamin C in a fruit

- Press the orange and **measure the volume** using the graduated test piece and filter:

**V(orange juice)= .....mL**

- Take **V<sub>0</sub> = 10 mL** from this solution and add it to the Erlenmeyer ;
- Add **V<sub>1</sub> = 20 mL** of diode solution and then shake with the magnetic agitator ;
- Fill the burette with a thiosulfate solution (don't forget to adjust to 0);
- Dose the diode in excess until discoloration of the solution;
- Note the volume versed: **V<sub>2</sub> = .....mL**

**To calculate the mass of vitamin C in 10mL:**

$$m(\text{vit.C}) = [(C_1 \times V_1 - (c_2 \times V_2) / 2) \times 176]$$

Deduct the mass of Vitamin C in 1 orange.



**Conclusion :** How much should you eat oranges to get as much vitamin as a tablet ?

