## Answer on Question #54291 – Chemistry – General Chemistry

## Question

Calculate the number of mole contained in a solution of sulphuric acid, if the titre value on titration against 20 cm<sup>3</sup> 0.5 M sodium carbonate is 20.24 cm<sup>3</sup>.

- 0.02mol
- 0.04mol
- 0.01mol
- 0.15mol

## **Answer:**

The number of moles of sodium carbonate in its solution is:

$$n(Na_2CO_3) = 20 \cdot 0.5/1000 = 0.01 \, mol$$

The number of mole contained in a solution of sulphuric acid is equal to the number of moles of sodium carbonate, so:

$$n(H_2SO_4) = n(Na_2CO_3) = 0.01 \, mol$$

Answer: 0.01 mol