

## Answer on Question #58256-Chemistry-General Chemistry

How many moles of NaOH are present in 31.0 mL of 0.180 M NaOH?

### Answer

Molar concentration or molarity ( $C_M$ ) is most commonly expressed in units of moles of solute per litre of solution.

$$C_M = \frac{\nu}{V}$$

Then

$$\nu = C_M \cdot V = 0.18 \text{ M} \cdot 0.031 \text{ L} = 0.00558 \text{ or } 5.6 \cdot 10^{-3} \text{ mole}$$