

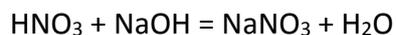
## Answer on Question #42323 - Chemistry - Inorganic Chemistry

### Question:

What quantity of 0.25 M HNO<sub>3</sub> can be neutralized by 0.10 liters of 0.50 M NaOH?

### Solution:

The equation is:



0.1 liter of 0.50 M NaOH solution contains  $0.1 * 0.5 = 0.05$  moles of NaOH

The quantity of HNO<sub>3</sub> needed to neutralize NaOH is the same to the quantity of NaOH, 0.05 moles.

The quantity of HNO<sub>3</sub> solution needed is  $\frac{0.05}{0.25} = 0.2$  l

**Answer:** 0.2 liters