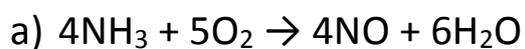


Answer to Question #53038 – Chemistry – General chemistry



b) As you can see from equation to combust 4 L of NH_3 you need 5 liters of O_2 . So to combust 0.1 L of NH_3 :

$$V_{\text{O}_2} = \frac{0.1 \cdot 5}{4} = 0.125 \text{ L}$$

So O_2 is in excess.

Excess volume is :

$$\Delta V = 0.2 \text{ L} - 0.125 \text{ L} = 0.075 \text{ L}$$

Answer: excess volume of O_2 is 0.075 L.