

## Answer on Question #79394 - Chemistry - Physical Chemistry

Question:

what is the volume of 2.5 mol of nitrogen gas at S.T.P

**Solution:**

$$n = V/V_m;$$

$$V_m = 22.4 \text{ L/mol};$$

$$V = n \cdot V_m = 2.5 \cdot 22.4 = 56 \text{ L.}$$

**Answer:** 56 L.