

## **Answer on Question # 73684 - Chemistry - Physical Chemistry**

The active mass of 7g of nitrogen in 2 litre container would be

### **Solution**

Active mass is the concentration of a reacting substance expressed usually in moles per liter.  
Converting grams of nitrogen to moles:

$$7 \text{ g N}_2 \left( \frac{1 \text{ mol N}_2}{28 \text{ g N}_2} \right) = 0.25 \text{ mol N}_2.$$

Calculating the molarity of nitrogen in the container:

$$0.25 \text{ mol N}_2 / 2 \text{ L} = 0.125 \text{ mol/L}.$$

**Answer: 0.125 mol/L.**

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