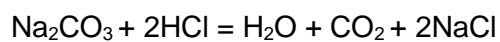


Question #60581, Chemistry, Other

Sodium carbonate reacts with HCl acid to liberate CO₂. Find the number of moles of CO₂. Also find the volume obtained at STP when 1 mole of sodium bicarbonate is used.

Answer:



According to the equation, the number of moles of CO₂ formed is 1.

$$n(\text{Na}_2\text{CO}_3) = n(\text{CO}_2) = 1 \text{ mole}$$

$$n(\text{CO}_2) = V/22.4$$

$$V(\text{CO}_2) = 1 \cdot 22.4 = 22.4 \text{ l}$$

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