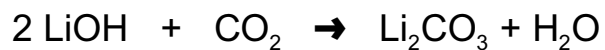


Limiting Reactants

1. The following reaction is used to remove carbon dioxide from the space shuttle:



- a) What mass of LiOH is needed to absorb 4.50 L of carbon dioxide at STP.
- b) i) 8.95 g of LiOH is reacted with 5.00 g of CO₂. Determine the Limiting Reactant and calculate the mass of Li₂CO₃ produced.
- ii) Find the mass of unused reactant from b) i) above.

2. 10.0 g of aluminum is placed in a container to react with 60.0 g of hydrogen chloride.
- Write a balanced chemical equation for this reaction
 - Determine the Limiting Reactant
 - Calculate the mass of aluminum chloride produced
 - Find the mass of unused reactant.