

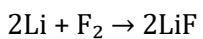
October Chemistry Test

Grade 11 (Second Secondary)

Q1: Calculate the volume of 2.5 moles of a gas at STP.

Q2: Calculate the number of molecules present in 4.4 grams of carbon dioxide gas (CO₂).

Q3: 15 g of lithium reacts with 15 g of fluorine according to the following equation:



Calculate:

1. The mass of the product formed.
2. The mass of the remaining reactant.

Q4: An unknown compound contains 24.2% carbon, 4% hydrogen, and the rest is chlorine. Find the molecular formula of the compound, knowing that its molar mass is 148.5 g/mol.

Given atomic masses:

C = 12 H = 1 Cl = 35.5 O = 16 Li = 7 F = 19