The Mole

Section 10.1 Measuring Matter

page 320-324

Practice Problems

pages 323-324

 Zinc (Zn) is used to form a corrosion-inhibiting surface on galvanized steel. Determine the number of Zn atoms in 2.50 mol of Zn.

 Calculate the number of molecules in 11.5 mol of water (H₂O).

 Silver nitrate (AgNO₃) is used to make several different silver halides used in photographic films. How many formula units of AgNO₃ are there in 3.25 mol AgNO₃?

3.25 mol AgNO₃ ×
$$\frac{6.02 \times 10^{23} \text{ formula units AgNO}_3}{1 \text{ mol AgNO}_3}$$

= 1.96 × 10²⁴ formula units of AgNO₃

 Challenge Calculate the number of oxygen atoms in 5.0 mol of oxygen molecules. Oxygen is a diatomic molecule, O₃.

- 5. How many moles contain each of the following?
 - a. 5.75 × 10²⁴ atoms Al 5.75 × 10²⁴ atoms Al × 1 mol Al = 9.55 mol Al

b. 2.50×10^{20} atoms Fe

- Challenge Identify the representative particle for each formula and convert the given number of representative particles to moles.
 - a. 3.75 + 1024 CO.

The representative particle is a molecule.

b. 3.58 × 10²³ ZnCl₂

The representative particle is a formula unit.

Section 10.1 Assessment

page 324

7. Explain why chemists use the mole.

Chemists use the mole because it is a convenient way of knowing how many representative particles are in a sample.

 State the mathematical relationship between Avogadro's number and 1 mol.

One mole contains 6.02 × 10²³ representative particles.

List the conversion factors used to convert between particles and moles.

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web research and develop an intelligent traffic light called plc control system it uses plc as control core using a sensor module for receiving real time information of vehicles traffic control mode for information to select the traffic lights of