Determine the formula weight of H_2O (water).

Determine the formula weight of NaCl (sodium chloride, salt).

Determine the formula weight of $C_6H_{12}O_6$ (glucose).

Determine the formula weight of $CaCl_2$ (calcium chloride).

Determine the formula weight of $MgSO_4 \cdot 7H_2O$ (magnesium sulfate heptahydrate).

Determine the formula weight of CH_3COOH (acetic acid).

Determine the formula weight of NH_4NO_3 (ammonium nitrate).

Determine the formula weight of KNO_3 (potassium nitrate).

Determine the formula weight of $CaCO_3$ (calcium carbonate).

Determine the formula weight of C_2H_5OH (ethanol).

Determine the formula weight of H_2O (water).

$$H_2O = 2(H) + (O)$$

$$= 2(1.008) + (15.999)$$

$$= 18.015$$

$$= 18.015 \text{ g/mole}$$

Determine the formula weight of NaCl (sodium chloride, salt).

$$NaCl = (Na) + (Cl)$$

$$= (22.9898) + (35.453)$$

$$= 58.4428$$

$$= 58.443 \ g/mole$$

Determine the formula weight of $C_6H_{12}O_6$ (glucose).

$$C_6H_{12}O_6 = 6(C) + 12(H) + 6(O)$$

$$= 6(12.0107) + 12(1.008) + 6(15.999)$$

$$= 180.1542$$

$$= 180.154 \text{ g/mole}$$

Determine the formula weight of $CaCl_2$ (calcium chloride).

$$CaCl_2 = (Ca) + 2(Cl)$$

$$= (40.078) + 2(35.453)$$

$$= 110.984$$

$$= 110.984 \text{ g/mole}$$

Determine the formula weight of $MgSO_4 \cdot 7H_2O$ (magnesium sulfate heptahydrate).

$$MgSO_4 \cdot 7H_2O = (Mg) + (S) + 4(O) + 7[2(H) + (O)]$$

$$= (24.3050) + (32.065)$$

$$+ 4(15.999)$$

$$+ 7[2(1.008) + (15.999)]$$

$$= 246.471$$

$$= 246.471 \ g/mole$$

Determine the formula weight of CH_3COOH (acetic acid).

$$CH_3COOH = (C) + 3(H) + (C) + (O) + (O) + (H)$$

$$= (12.0107) + 3(1.008) + (12.0107)$$

$$+ (15.999) + (15.999) + (1.008)$$

$$= 60.0514$$

$$= 60.051 \ g/mole$$

Determine the formula weight of NH_4NO_3 (ammonium nitrate).

$$NH_4NO_3 = (N) + 4(H) + (N) + 3(O)$$

$$= (14.0067) + 4(1.008)$$

$$+ (14.0067) + 3(15.999)$$

$$= 80.0424$$

$$= 80.042 \text{ g/mole}$$

Determine the formula weight of KNO_3 (potassium nitrate).

$$KNO_3 = (K) + (N) + 3(O)$$

$$= (39.0983) + (14.0067) + 3(15.999)$$

$$= 101.102$$

$$= 101.102 \ g/mole$$

Determine the formula weight of $CaCO_3$ (calcium carbonate).

$$CaCO_3 = (Ca) + (C) + 3(O)$$

$$= (40.078) + (12.0107) + 3(15.999)$$

$$= 100.0857$$

$$= 100.086 \ g/mole$$

Determine the formula weight of C_2H_5OH (ethanol).

$$C_2H_5OH = 2(C) + 5(H) + O + H$$

$$= 2(12.0107) + 5(1.008) + (15.999) + (1.008)$$

$$= 46.0684$$

$$= 46.068 \ g/mole$$