MOLAR MASS PRACTICE WORKSHEET

Find out the molar masses of the following molecules.

1) Na_3PO_4

2) AgF

3) $(NH_4)_2S$

4) $Fe_3(PO_4)_2$
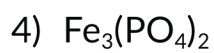
5) $Zn(C_2H_3O_2)_2$

6) $(NH_4)_2CO_3$

7) $Ca(OH)_2$

8) $NaCl$
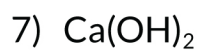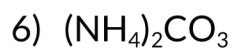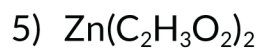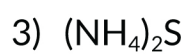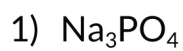
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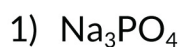
1) Na_3PO_4

Molar mass of Na_3PO_4 = (3 x Molar mass of Na) + Molar mass of P + (4 x Molar mass of O) = 69 + 30.97 + 64 = 163.97 g/mol

2) AgF

Molar mass of AgF = Molar mass of Ag + Molar mass of F = 107.87 + 19 = 126.87 g/mol

3) $(NH_4)_2S$

Molar mass of $(NH_4)_2S$ = (2 x Molar mass of N) + (8 x Molar mass of H) + Molar mass of S = 28.02 + 8.08 + 32.07 = 68.17 g/mol
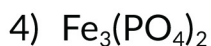
4) $Fe_3(PO_4)_2$

Molar mass of $Fe_3(PO_4)_2$ = (3 x Molar mass of Fe) + (2 x Molar mass of P) + (8 x Molar mass of O) = 167.55 + 61.94 + 128 = 357.49 g/mol
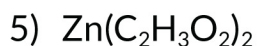
5) $Zn(C_2H_3O_2)_2$

Molar mass of $Zn(C_2H_3O_2)_2$ = Molar mass of Zn + (4 x Molar mass of C) + (6 x Molar mass of H) + (4 x Molar mass of O) = 65.39 + 48.04 + 6.06 + 64 = 183.49 g/mol

6) $(NH_4)_2CO_3$

Molar mass of $(NH_4)_2CO_3$ = (2 x Molar mass of N) + (8 x Molar mass of H) + Molar mass of C + (3 x Molar mass of O) = 28.02 + 8.08 + 12.01 + 48 = 96.11 g/mol
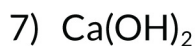
7) $Ca(OH)_2$

Molar mass of $Ca(OH)_2$ = Molar mass of Ca + (2 x Molar mass of O) + (2 x Molar mass of H) = 40.08 + 32 + 2.02 = 74.1 g/mol

8) NaCl

Molar mass of NaCl = Molar mass of Na + Molar mass of Cl = 22.99 + 35.45 = 58.44 g/mol