Name : _____ Date : _____

MOLAR MASS WORKSHEET

Determine the molar masses of the following compounds.

1. $PbSO_4$

2. AgF

3. $C_6H_{12}O_6$

4. NaBr

5. $(NH_4)_2S$

6. $Zn(C_2H_3O_2)_2$

7. UF_6

8. $Ga_2(SO_3)_3$

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Answers

1. $PbSO_4$

Molar mass of $PbSO_4$ = Molar mass of Pb + Molar mass of S + (4 x Molar mass of O) = 207.2 + 32.065 + 63.99 = 303.3 g/mol

2. AgF

Molar mass of AgF = Molar mass of Ag + Molar mass of F = 107.8 + 18.9 = 126.7 g/mol

3. $C_6H_{12}O_6$

Molar mass of $C_6H_{12}O_6$ = (6 x Molar mass of C) + (12 x Molar mass of H) + (6 x Molar mass of O) = 72.0642 + 12.09528 + 95.9964 = 180.15 g/mol

4. NaBr

Molar mass of NaBr = Molar mass of Na + Molar mass of Br = 22.989770 + 79.904 = 102.9 g/mol

5. $(NH_4)_2S$

Molar mass of $(NH_4)_2S$ = (2 x Molar mass of N) + (8 x Molar mass of H) + Molar mass of S = 28.0134 + 8.06352 + 32.065 = 68.1 g/mol

6. $Zn(C_2H_3O_2)_2$

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) = 65.409 + 48.04 + 6.047 + 63.99 = 183.48 g/mol

7. UF_6

Molar mass of UF_6 = Molar mass of U + (6 x Molar mass of F) = 238.03 + 114 = 352.03 g/mol

8. $Ga_2(SO_3)_3$

Molar mass of $Ga_2(SO_3)_3$ = (2 x Molar mass of Ga) + (3 x Molar mass of S) + (9 x Molar mass of O) = 139.44 + 96.21 + 144 = 379.65 g/mol