

Name: _____

Date: _____ Per: _____

Chemistry

Assessment #9: Molar Masses & Percent Composition PRACTICE

For each of the following questions or statements, select the most appropriate response and write its letter on the answer line:

- _____ 1. The molar mass of magnesium fluoride (MgF_2) is:
A. 86.6 g/mol
B. 43.3 g/mol
C. 62.3 g/mol
D. 67.6 g/mol
E. 92.9 g/mol
- _____ 2. The molar mass of silver chromate (Ag_2CrO_4) is:
A. 159.87 g/mol
B. 223.87 g/mol
C. 331.73 g/mol
D. 339.86 g/mol
E. 175.87 g/mol
- _____ 3. The molar mass of potassium phosphate is:
A. 173.17 g/mol
B. 251.37 g/mol
C. 212.27 g/mol
D. 196.27 g/mol
E. 86.07 g/mol
- _____ 4. The molar mass of acetic acid (CH_3COOH) is approximately:
A. 60 g/mol
B. 48 g/mol
C. 44 g/mol
D. 32 g/mol
E. 28 g/mol
- _____ 5. The molar mass of potassium dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$) is:
A. 107.09 g/mol
B. 255.08 g/mol
C. 242.18 g/mol
D. 294.18 g/mol
E. 333.08 g/mol
- _____ 6. The molar mass of calcium nitrate is:
A. 102.1 g/mol
B. 164.1 g/mol
C. 204.2 g/mol
D. 150.1 g/mol
E. 116.1 g/mol

- _____ 7. The mass % of fluorine in the compound KrF_2 is:
A. 18.48 %
B. 45.34 %
C. 68.80 %
D. 81.52 %
E. 31.20 %
- _____ 8. The mass % of H in methane (CH_4) is:
A. 4.032%
B. 6.283%
C. 25.13%
D. 74.87%
E. 92.26%
- _____ 9. What is the mass % of carbon in dimethylsulfoxide ($\text{C}_2\text{H}_6\text{SO}$)?
A. 60.0 %
B. 20.6 %
C. 30.7 %
D. 7.74 %
E. 79.8 %
- _____ 10. The mass % of aluminum in aluminum sulfate is:
A. 7.886%
B. 15.77%
C. 21.93%
D. 45.70%
E. 35.94%

Answers:

1. C
2. C
3. C
4. A
5. D
6. B
7. E
8. C
9. C
10. B