

Key

Molecular Weight and Mole Calculations

I. Find the molecular weight for each of the compounds shown below:

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|------------------------------------|---|
| 1. H_3PO_4 98 | 17. Nd_2O_3 336 |
| 2. $AlCl_3$ 133.5 | 18. $Sb(NO_3)_3$ 308 |
| 3. $Dy(OH)_3$ 213.5 | 19. K_3PO_4 212 |
| 4. $K_2C_4H_4O_6$ 226 | 20. $Ga_2(SO_4)_3$ 427.4 |
| 5. H_2SO_4 98 | 21. zinc acetate $Zn(C_2H_3O_2)_2$
183.3 |
| 6. N_2O_5 108 | 22. copper (I) sulfate Cu_2SO_4 223.5
157.5 |
| 7. $CuSO_4 \cdot 5H_2O$ 249.5 | 23. carbon dioxide CO_2 44 |
| 8. $NiSO_4$ 155 | 24. calcium bicarbonate $Ca(HCO_3)_2$
162 |
| 9. $Sn(OH)_4$ 186.7 | 25. nitric acid HNO_3 63 |
| 10. $(NH_4)_3PO_4$ 149 | 26. aluminum nitrate $Al(NO_3)_3$ 213 |
| 11. $Fe(C_2H_3O_2)_3$ 232.8 | 27. ammonium sulfate $(NH_4)_2SO_4$ 132 |
| 12. SO_2 64 | 28. barium chloride dihydrate $BaCl_2 \cdot 2H_2O$ 243.3 |
| 13. $KAl(SO_4)_2 \cdot 12H_2O$ 474 | 29. ferrous phosphate $Fe_3(PO_4)_2$ 357.4 |
| 14. $NaIO_4$ 214 | 30. strontium hydroxide $Sr(OH)_2$ 121.6 |
| 15. $Pr(OH)_3$ 192 | 31. sodium sulfite Na_2SO_3 126 |
| 16. $K_4Fe(CN)_6$ 368 | 32. magnesium nitride Mg_3N_2 100.9 |

(continued)