

# Molar Mass Worksheet and Key

For the following compounds, write the chemical formula and determine the molar mass. Write the units!

**water**

**sodium carbonate**

**carbon dioxide**

**barium nitrate**

**sodium chloride**

**hydrogen monochloride**

**calcium hydroxide**

**sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)**

**potassium permanganate (KMnO<sub>4</sub>)**

**acetic acid (C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>)**

SEE NEXT PAGE FOR KEY

# Molar Mass Worksheet Key

## Water (H<sub>2</sub>O)

Element	Number	MM
H	2	1.01 g/mole
O	1	16.00 g/mole

Total MM = 18.02 g/mole

## carbon dioxide, CO<sub>2</sub>

Element	Number	MM
O	2	16.00 g/mole
C	1	12.01 g/mole

Total MM = 44.01 g/mole

## sodium chloride, NaCl

Element	Number	MM
Cl	1	35.45 g/mole
Na	1	22.99 g/mole

Total MM = 58.44 g/mole

## calcium hydroxide, Ca(OH)<sub>2</sub>

Element	Number	MM
H	2	1.01 g/mole
O	2	16.00 g/mole
Ca	1	40.08 g/mole

Total MM = 74.10 g/mole

## potassium permanganate (KMnO<sub>4</sub>)

Element	Number	MM
O	4	16.00 g/mole
Mn	1	54.94 g/mole
K	1	39.10 g/mole

Total MM = 158.04 g/mole

## sodium carbonate, Na<sub>2</sub>CO<sub>3</sub>

Element	Number	MM
O	3	16.00 g/mole
Na	2	22.99 g/mole
C	1	12.01 g/mole

Total MW = 105.99 g/mole

## barium nitrate, Ba(NO<sub>3</sub>)<sub>2</sub>

Element	Number	MM
O	6	16.00 g/mole
Ba	1	137.33 g/mole
N	2	14.01 g/mole

Total MM = 261.35 g/mole

## hydrogen monochloride, HCl

Element	Number	MM
Cl	1	35.45 g/mole
H	1	1.01 g/mole

Total MM = 36.46 g/mole

## sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

Element	Number	MM
S	1	32.07 g/mole
H	2	1.01 g/mole
O	4	16.00 g/mole

Total MM = 98.09 g/mole

## acetic acid (C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>)

Element	Number	MM
H	4	1.01 g/mole
O	2	16.00 g/mole
C	2	12.01 g/mole

Total MM = 60.06 g/mole