



- How many significant figures are there in the measurement 1.3240 g?
A) 6
B) 5
C) 4
D) 3
- How many significant figures are there in the volume 0.0120 L?
A) 5
B) 4
C) 3
D) 2
- Aluminum has a density of 2.7 g/cm^3 . Calculate the volume occupied by a mass of 5.235 g?
A) 1.9 cm^3
B) 0.5 cm^3
C) 1.0 m^3
D) 1.9 m^3
- According to the American Heart Association, the recommended daily allowance (RDA) of sodium should not exceed the 3000 mg limit. If table salt (sodium chloride) is 42.7% sodium. How many grams of salt are needed to provide the RDA of sodium?
A) 1281 mg
B) 1281 g
C) 7025 g
D) 7.02 g
- Calculate the percentage composition (by weight) of each element present in sodium sulfate (Na_2SO_4):
A) %Na: 32.37; %S: 22.57; %O 45.06
B) %Na: 22.57; %S: 32.37; %O 45.06
C) %Na: 45.06; %S: 22.57; %O 32.37
D) %Na: 32.37; %S: 45.06; %O 22.57
- Convert 300 °C to the Kelvin scale:
A) 573.15 K
B) 26.85 K
C) 1.09 K
D) 0.911 K
- Calculate the amount of nitrogen expressed as percentage by weight present in ammonium phosphate $[(\text{NH}_4)_3\text{PO}_4]$:
A) %N: 8.11
B) %N: 20.77
C) %N: 28.19
D) %N: 42.90
- Which of the following properties is an example of a chemical property?
A) Combustibility
B) Boiling temperature
C) Colour
D) freezing point