Chemical Formula By Chemistry Notes Info

(www.ChemistryNotesInfo.Blogspot.Com)

(www.facebook.com/ChemistryNotes.Info)

Molecular Formula

Glucose (a sugar)

Molecular Formula = $C_6H_{12}O_6$

- 6 atoms carbon, C
- 12 atoms hydrogen, H
- 6 atoms oxygen, O

Atomic mass

- The average mass of the atoms of an element as they occur in nature
- Atomic mass units, amu
- 1 amu = 1/12th the mass of one carbon-12 atom
- The mass of an electron is very small so more than 99.9% of the mass of the carbon-12 atom are the 6 protons and 6 neutrons (about the same mass)
- 1 amu ≈ the weight of one subatomic particle (neutron or proton)
- 1 amu = 1.66 x 10–24 g (a very small number!)
- **Symbol used in chemistry and Formula used in chemistry**
- **Symbol used in chemistry**
- d= density
  v= volume
  m= mass
  Cp= specific heat
  q= heat
  ΔT= change in temperature
  K= Kelvin
  C= Celsius
- **Formula used in chemistry**
- d=m/v
  v=m/d

m=v*d
Cp= q/ (m* ΔT)
q= Cp*m*ΔT
ΔT= q/Cp*m
m= q/Cp* ΔT
Tf= q/m*Cp +Ti
Ti= q/m*Cp +Tf (then divide everything on the right by negative 1 [-1]) **this formula isn't used as often as Tf**
t(C°)= T(K) - 273.15K --used to find Celsius
T(K)= t(°C) + 273.1°C -- used to find Kelvin

@http://www.chemistrynotesinfo.blogspot.com