

Solutions

Solute + Solvent

Universal solvent
↳ Water

MOLARITY M

$$M = \frac{\text{Moles Solute}}{\text{L Soln}}$$

Molality (m)

$$m = \frac{\text{Moles Solute}}{\text{Kg Solvent}}$$

Mar 10-8:29 AM

H₂O dissolves

→ Polar

→ Ionic

Non-Polar ... Not so much ...

POLAR

Mar 10-9:31 AM

Dilution

$M = \frac{\text{moles}}{\text{l soln}}$

Moles START = Moles END

← ↓ sugar.
← ↑ H₂O

M ↓
(Add H₂O)

Mar 10-9:51 AM

have 6M HCl need 100ml 2M HCl

how much dilute → Make.

Moles Start = Moles end

$M \times l = M \times l$

(6) ml = (2) (100) ml

Need ⇒ 33.3ml 6M HCl

$\frac{M}{l} = \frac{\text{moles}}{l}$

Volume = $M \times l$

Mar 10-9:53 AM

P20

Soln
Packet

Mar 10-10:02 AM