

Water

Moles

25

$0.02 \times 1000 = 0.02 \text{ mol/dm}^3$

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work out concentration of reactant solution.

HCl:NaOH Moles of NaOH = moles of HCl = 0.02 moles of NaOH

work out number of reactant moles

$$\frac{1 \times 20}{1000} = 0.02 \text{ moles of HCl}$$

Moles = Concentration \times Volume (cm³)

work out number of moles in solution using known concentration and volume.



work out balanced equation

What is the concentration of NaOH?

dm³ of 1.0M reacted with 25cm³ of NaOH.

(neutralisation)

strong acid + strong alkali - fully ionised
weak acid + strong alkali - incomplete
strong acid + weak alkali - see which ions change

WEAK HCl OR Alkali - partially ionised in water

water ions

STRONG HCl OR Alkali - completely ionised in water (all of compound dissociates)

acid and it expandable behaviour with non-polar molecules.

Authorities' idea took a long time to be accepted as it was a refinement of an existing

idea - a proton acceptor

acid - a proton donor

ion and Brønsted

acid - a substance which dissociates in water produces hydroxide ions (OH⁻)

acid - a substance which dissociates in water produces hydrogen ions (H⁺)

Authorities' idea for ionisation:

Acids and Alkalies