

MAPA MENTAL

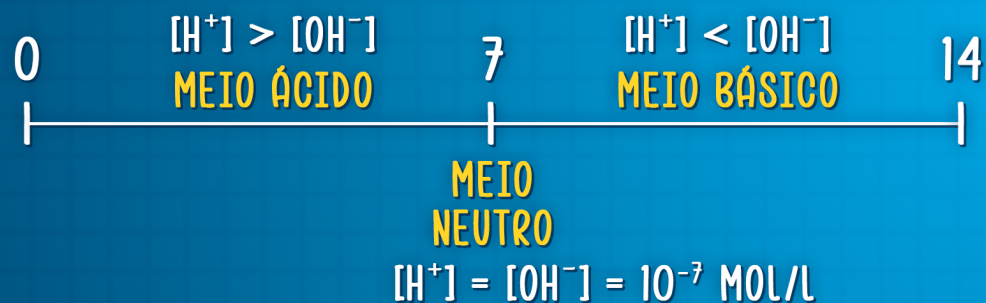


EQUILIBRIO IÔNICO 2

AUTOPROTÓLISE DA ÁGUA: $\text{H}_2\text{O}_{(l)} \rightleftharpoons \text{H}^+_{(aq)} + \text{OH}^-_{(aq)} \rightarrow K_w = [\text{H}^+] \cdot [\text{OH}^-] \rightarrow K_w = 1,0 \cdot 10^{-14} \text{ M}^2 (T = 25^\circ\text{C})$

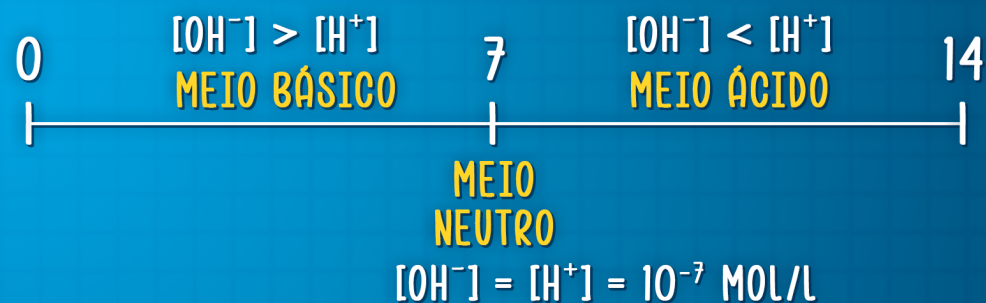
pH = POTENCIAL HIDROGENIÔNICO

$$\text{pH} = -\log [\text{H}^+]$$



pOH = POTENCIAL HIDROXILIÔNICO

$$\text{pOH} = -\log [\text{OH}^-]$$



OBS.: MEIO BÁSICO E MEIO ALCALINO QUEREM DIZER A MESMA COISA

RELAÇÃO pH x pOH (T = 25°C)

$$\text{pH} + \text{pOH} = 14$$

OUTRAS FÓRMULAS

$$[\text{H}^+] = 10^{-\text{pH}}$$

$$[\text{OH}^-] = 10^{-\text{pOH}}$$