

Transformations Acide Base

1) ACIDE

→ Un acide AH cède au moins un ion hydrogène H^+ : $AH_{(aq)} \rightarrow A^-_{(aq)} + H^+$

Exemples :

- Acide éthanóïque :



- Acide chlorhydrique :



- Acide nitrique :



2) BASE

→ Une base A^- capte au moins un ion hydrogène H^+ : $A^-_{(aq)} + H^+ \rightarrow AH_{(aq)}$

Exemples :

- Ammoniac :



- Hydroxyde de sodium :



3) COUPLE ACIDE-BASE

→ Demi-équation du couple AH / A^- :



♥ Couples à connaître :

- Ion hydrogénocarbonate / ion carbonate :



- Acide carbonique / ion hydrogénocarbonate :



4) ESPÈCE AMPHOTÈRE

→ Une espèce amphotère est à la fois acide d'un couple et base d'un autre

Exemple des couples de l'eau :



5) pH

→ Potentiel Hydrogène (pH) : sans unité : mesure l'acidité d'une solution. Il est lié à la concentration en ions oxonium $[H_3O^+]$

♥ Formules :

$$pH = -\log\left(\frac{[H_3O^+]}{c^\circ}\right)$$
$$[H_3O^+] = c^\circ \times 10^{-pH}$$

$c^\circ = 1 \text{ mol. L}^{-1}$: concentration molaire standard
 $[H_3O^+]$ en mol. L^{-1} : concentration molaire en ions oxonium

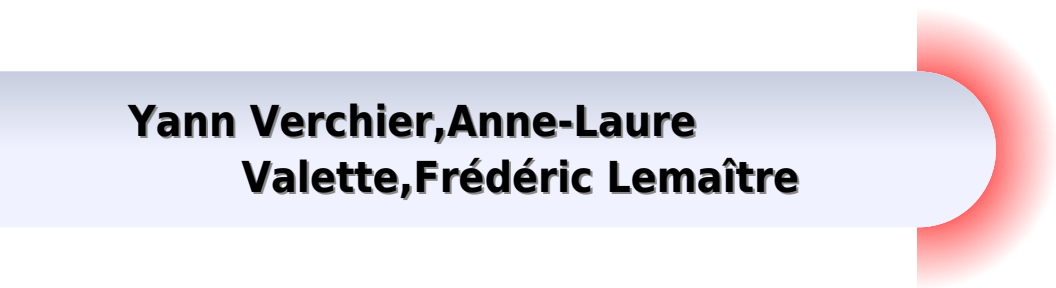


MÉMO :

- Solution acide : $pH < 7$
- Solution neutre : $pH = 7$
- Solution basique : $pH > 7$

Maxi Fiches De Chimie Geacuteneacuturale En Fiches En Fiches

**Yann Verchier, Anne-Laure
Valette, Frédéric Lemaître**



Maxi Fiches De Chimie Générale En Fiches En Fiches:

Maxi Fiches De Chimie Générale Anne-Laure Valette, Frédéric Lemaître, 2008 Les ouvrages de la collection Maxi Fiches s'adressent aux étudiants désireux de maîtriser les fondamentaux d'une discipline. En 80 fiches synthétiques de 2 à 6 pages sont présentées toutes les grandes notions de la Chimie atomistique chimie des solutions oxydoréduction cristallographie thermodynamique chimie électrochimie cinétique chimie bases de chimie organique techniques analytiques. Chaque fiche est accompagnée d'un exemple d'application pour aider l'étudiant à assimiler rapidement et à maîtriser des notions indispensables connaître.

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