

I) Évolution d'un système chimique

La transformation chimique correspond au passage entre un état initial à un état final.

On nomme **réactifs** les espèces chimiques qui **sont consommées** et **produits** les espèces chimiques qui sont formées.

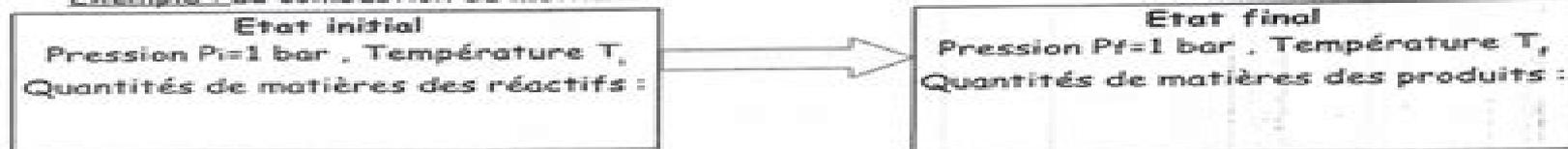
Lorsqu'au moins un des réactifs est entièrement consommé, la réaction s'arrête. Ce réactif s'appelle le réactif limitant.

L'évolution d'un système chimique est modélisée par une réaction chimique.

Certaines espèces ne réagissent pas, au cours d'une réaction chimique : elles sont présentes au niveau des réactifs et des produits. Ce sont des **espèces spectatrices**.

Voir activité expérimentale correspondante.

Exemple : La combustion du méthane :

**II) Équation d'une réaction chimique**

Une réaction chimique est décrite par une équation chimique. L'écriture de cette équation fait apparaître la formule brute et l'état physique des réactifs (à gauche de la flèche) et des produits (à droite de la flèche).

Il faut respecter les lois de conservation : des éléments chimiques et de la charge de part et d'autre de la flèche.

Les chiffres placés devant chaque espèce chimique dans l'équation s'appellent nombres stœchiométriques. Voir activité expérimentale correspondante.

Exemple : Ecrire l'équation de la combustion entre le méthane CH_4 et le dioxygène sachant que les produits sont le dioxyde de carbone et l'eau. (trois gaz et un liquide)

III) Effets thermiques d'une transformation chimique

Les transformations chimiques ou physiques s'accompagnent d'un effet thermique.

S'il y a libération d'énergie, la transformation est **exothermique** (ex : combustions...).

S'il y a absorption d'énergie, la transformation est **endothermique** (ex : voir AE).

IV) Synthèse chimique

On appelle **synthèse** la préparation d'une espèce chimique à partir d'autres espèces chimiques.

On synthétise des espèces chimiques **identiques à des espèces naturelles** pour protéger la nature (en évitant la disparition d'espèces animales et végétales), pour produire en plus grande quantité, pour des raisons économiques. Ex : caoutchouc, acétate de linoléyle

NB : On synthétise des espèces chimiques artificielles, c'est-à-dire, inventées par l'Homme.

Ex : matières plastiques, nylon.

Voir activité expérimentale correspondante.

Handbook Of Ch Transformations

Chao Zhang



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