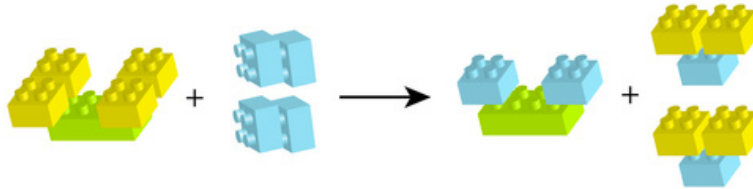




EXERCICES DU CHAPITRE 2

Les transformations chimiques Corrigés des exercices



Transformations chimiques

Exercice 1 : expressions de quotients réactionnels

1)

$$Q = \frac{\left(\frac{[Mn^{2+}]}{c^\circ}\right)^2 \left(\frac{P_{O_2}}{p^\circ}\right)^5 1^8}{\left(\frac{[MnO_4^-]}{c^\circ}\right)^2 \left(\frac{[H^+]}{c^\circ}\right)^6 \left(\frac{[H_2O_2]}{c^\circ}\right)^5}$$

2)

$$Q = \frac{1 \cdot \left(\frac{P_{CO_2}}{p^\circ}\right)}{1}$$

3)

$$Q = \frac{\left(\frac{P_{H_2O}}{p^\circ}\right)^2 \left(\frac{P_{Cl_2}}{p^\circ}\right)^2}{\left(\frac{P_{HCl}}{p^\circ}\right)^4 \left(\frac{P_{O_2}}{p^\circ}\right)^1}$$
$$= \frac{(P_{H_2O})^2 (P_{Cl_2})^2 (P^\circ)^1}{(P_{HCl})^4 (P_{O_2})^1}$$

4)

$$Q = \frac{\left(\frac{[Hg_2^{2+}]}{c^\circ}\right)}{\left(\frac{[Hg^{2+}]}{c^\circ}\right) \cdot 1}$$

3)

$$= \frac{[Hg_2^{2+}]}{[Hg^{2+}]}$$