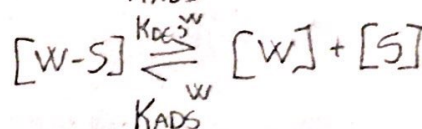
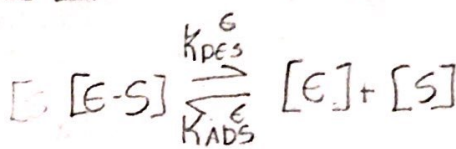
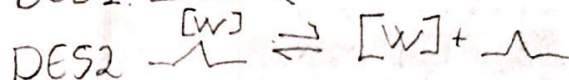
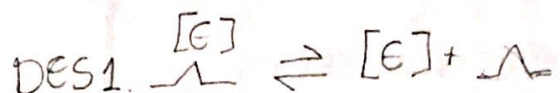
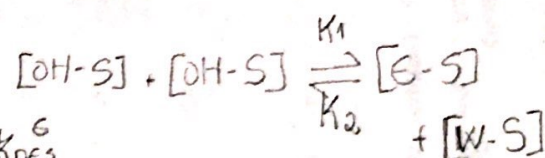
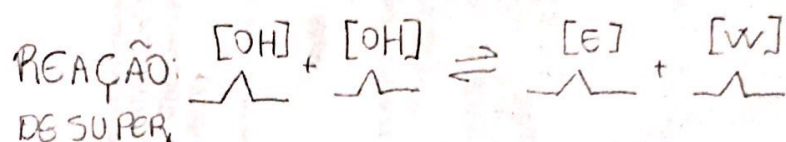
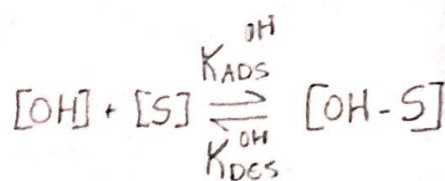
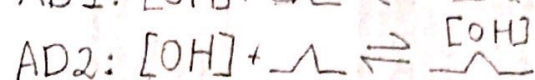
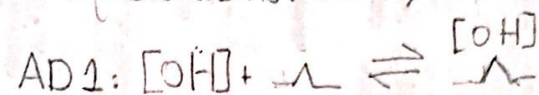


1 Mecanismos: Adsorção / LH / Dessorção



$$(-r_{OH})_{ADS} = k_{ADS}^{OH} \cdot C_{OH} \cdot C_S - k_{DES}^{OH} \cdot C_{OH,S}$$

$$(-r_{OH})_{REA} = k_1 \cdot C_{OH,S} \cdot C_{OH,S} - k_2 \cdot C_{E,S} \cdot C_{W,S}$$

$$(-r_E)_{DES} = k_{DES}^E \cdot C_{E,S} - k_{ADS}^E \cdot C_E \cdot C_S$$

$$(-r_W)_{DES} = k_{DES}^W \cdot C_{W,S} - k_{ADS}^W \cdot C_W \cdot C_S$$

$$AD1: (-r_{OH})_{ADS} = k_{ADS}^{OH} \left[C_{OH} \cdot C_S - \frac{C_{OH,S}}{K_{OH}} \right]$$

$$AD2: (-r_{OH})_{ADS} = k_{ADS}^{OH} \left[C_{OH} \cdot C_S - \frac{C_{OH,S}}{K_{OH}} \right]$$

Definindo:

$$K_{OH} = \frac{k_{ADS}^{OH}}{k_{DES}^{OH}}$$

$$K_E = \frac{k_{ADS}^E}{k_{DES}^E}$$

$$K_W = \frac{k_{ADS}^W}{k_{DES}^W}$$

$$R: (-r_{OH})_{REA} = k_1 \cdot C_{OH,S} \cdot C_{OH,S} - k_2 \cdot C_{E,S} \cdot C_{W,S}$$

$$DES1: (+r_E)_{DES} = k_{DES}^E [C_{E,S} - K_E \cdot C_E \cdot C_S]$$

$$DES2: (+r_W)_{DES} = k_{DES}^W [C_{W,S} - K_W \cdot C_W \cdot C_S]$$

Intermediários: $C_S, C_{OH,S}, C_{E,S}, C_{W,S}$.