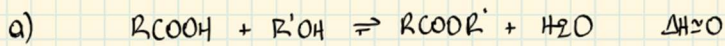


Άσκηση 22.2.

Έστω  $x$  mol  $R\text{COOH}$  και  $x$  mol  $R'\text{OH}$

$a = 3$   $K_c = 4$  στους  $30^\circ\text{C}$



αρχ:  $x$  mol  $x$  mol

αλη:  $-y$   $-y$   $y$   $y$

x.ι.:  $x-y$   $x-y$   $y$   $y$

$$a = \frac{y}{x} = 3$$

$$K_c = \frac{[R\text{COOR}'] \cdot [\text{H}_2\text{O}]}{[R\text{COOH}] [R'\text{OH}]} = \frac{\frac{y}{V} \cdot \frac{y}{V}}{\left(\frac{x-y}{V}\right) \left(\frac{x-y}{V}\right)} \Rightarrow 4 = \frac{\frac{y^2}{V^2}}{\frac{(x-y)^2}{V^2}} \Rightarrow$$

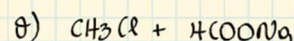
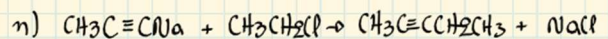
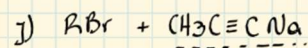
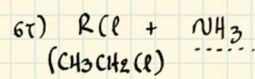
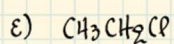
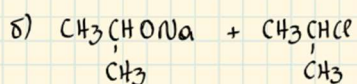
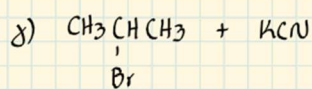
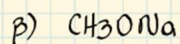
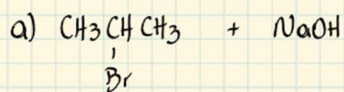
$$\Rightarrow 2 = \frac{y}{x-y} \Rightarrow 2x - 2y = y \Leftrightarrow 2x = 3y \Rightarrow \frac{y}{x} = \frac{2}{3}$$

Άρα:  $a = 0,67$  ή  $67\%$

β) Αφαιρούντε  $\text{H}_2\text{O}$  από τα προϊόντα.

## 22.3 εκτός ύλης

Άσκηση 22.4.



Άσκηση 22.5

