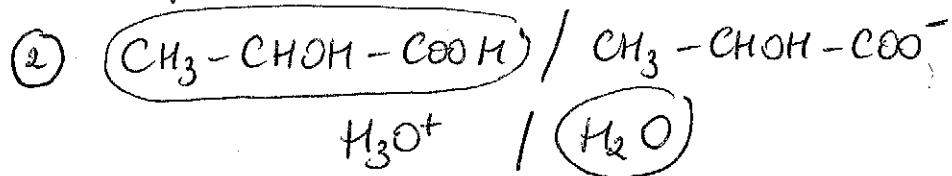
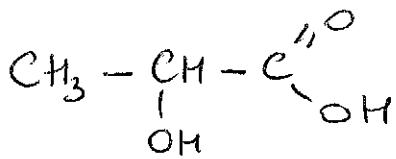
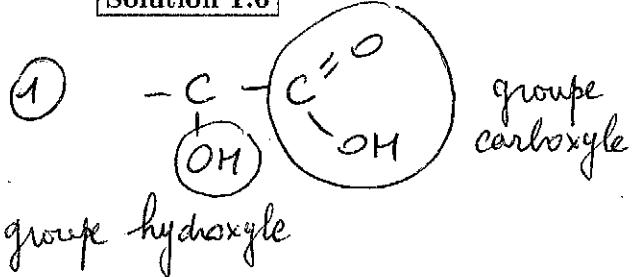
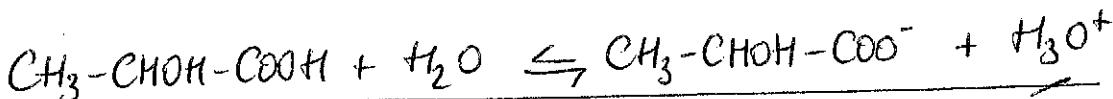


Solution 1.6



$$③ M(\text{C}_3\text{H}_6\text{O}_3) = 3M(\text{C}) + 6M(\text{H}) + 3M(\text{O}) \\ = 3 \times 12,0 + 6 \times 1,0 + 3 \times 16,0 = \underline{\underline{90,0 \text{ g} \cdot \text{mol}^{-1}}}$$

$$\underline{\underline{m(\text{C}_3\text{H}_6\text{O}_3) = 54,1 \text{ g}}} \quad \text{d'où } n(\text{C}_3\text{H}_6\text{O}_3) = \frac{m}{M} = \frac{54,1}{90,0} = \underline{\underline{0,601 \text{ mol}}}$$



E.I.	m	$/$	$/$	x
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en cours	$m - x$	$/$	x	m
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E.F. si réaction totale	$0 = m - x_m$	$/$	x_m	m
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$$\hookrightarrow \text{donc } x_m = m$$

$$④ \text{ Si la réaction est totale, } [\text{H}_3\text{O}^+] = \frac{n}{V} = \frac{0,601}{1,0} = \underline{\underline{0,60 \text{ mol} \cdot \text{L}^{-1}}}$$

$$\text{pH} = -\log [\text{H}_3\text{O}^+] = \underline{\underline{0,22}}$$

on a mesuré $\text{pH} = 1,9$ donc la réaction chimique s'est arrêtée avant que l'avancement ait atteint sa valeur maximale $x = x_m$.