
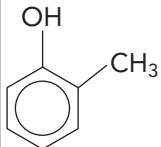
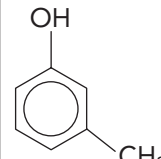
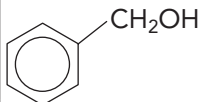
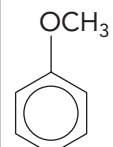
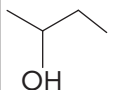
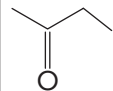


PADRÃO DE RESPOSTAS
(VALOR POR QUESTÃO: 2,00 PONTOS)

Questão	Resposta
1	carbono 6 H_2O 
2	Magnésio $MgCl_2$ Vermelha +1
3	Cresóis em menor proporção:   Isômeros de função:  
4	$CH_3COOH + NH_3 \longrightarrow CH_3CONH_2 + H_2O$ Função orgânica: éster. Hibridação: sp^2
5	Composto X  Composto Y  Mecanismo: substituição nucleofílica Isômeros ativos: $2^1 = 2$

6	<p>Solução de fluoreto de potássio</p> <p>Apresenta maior número de partículas dissolvidas.</p> $\begin{array}{c} \text{O} \\ \\ \text{H}-\text{C}-\text{H} \end{array}$ <p>Geometria trigonal plana</p>
7	$\text{Fe}^0_{(s)} + \text{Cu}^{2+}_{(aq)} \rightarrow \text{Fe}^{2+}_{(aq)} + \text{Cu}^0_{(s)}$ $\Delta E^\circ = + 0,34 - (- 0,44) = + 0,78 \text{ V}$
8	<p>Tempo de meia-vida do ^{214}Bi: 20 min</p> <p>Velocidade média de consumo do ^{212}Bi: $\left(\frac{100 - 25}{2 - 0}\right) = 37,5 \text{ mg} \times \text{h}^{-1}$</p> <p>1 mol $^{212}\text{Bi} \rightarrow 1 \text{ mol } \beta$</p> <p>212 g $\rightarrow 6 \times 10^{23}$ partículas</p> <p>0,0375 g $\rightarrow X$</p> <p>$X = 1,06 \times 10^{20} \text{ partícula} \times \text{h}^{-1}$</p>
9	$\begin{array}{l} \frac{1}{2}\text{H}_2(g) + \frac{1}{2}\text{Cl}_2(g) \rightarrow \text{HCl}(g) \quad \Delta H^\circ = - 92,5 \text{ kJ} \times \text{mol}^{-1} \\ + \text{HCl}(l) \rightarrow \frac{1}{2}\text{H}_2(g) + \frac{1}{2}\text{Cl}_2(g) \quad \Delta H^\circ = + 108,7 \text{ kJ} \times \text{mol}^{-1} \\ \hline \text{HCl}(l) \rightarrow \text{HCl}(g) \quad \Delta H^\circ = + 16,2 \text{ kJ} \times \text{mol}^{-1} \end{array}$ <p>Solidificação</p> <p>Condensação ou liquefação</p>
10	<p>NaOH consumido: $0,34 - 0,20 = 0,14 \text{ mol} \times \text{L}^{-1}$</p> <p>HClO formado: $0,20 \text{ mol} \times \text{L}^{-1}$</p> <p>Consumo de 20% do HClO = consumo de NaOH: $0,20 \times \frac{20}{100} = 0,04 \text{ mol} \times \text{L}^{-1}$</p> <p>[NaOH] no produto final = $0,14 - 0,04 = 0,10 \text{ mol} \times \text{L}^{-1}$</p> <p>$\text{ClO}^- + \text{HOH} \rightleftharpoons \text{HClO} + \text{OH}^-$</p>