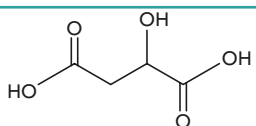
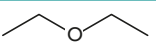


## PADRÃO DE RESPOSTAS

## Química

Questão	Resposta
1	A) ${}_{24}^{51}\text{Cr} \rightarrow {}_{25}^{51}\text{Mn} + {}_{-1}^0\beta$
	B) $400 \text{ mg} \xrightarrow{28 \text{ dias}} 200 \text{ mg} \xrightarrow{28 \text{ dias}} 100 \text{ mg}$ Foram consumidas 2 meias-vidas: $2 \times 28 = 56$ dias.
2	A) $\Delta H^{\circ} = -110,5 - 297,0 - (-100,5) = -307 \text{ kJ/mol}$
	B) monóxido de carbono e dióxido de enxofre
3	A) Ácido cis-butenodioico
	B)  $\text{O H}_2\text{SO}_4$ é um ácido pois ao se ionizar o único cátion formado é o $\text{H}^+$ .
4	A) $K = \frac{[\text{NO}_2]^2}{[\text{NO}]^2 \times [\text{O}_2]}$ $[\text{NO}_2]^2 = 2 \times 10^{13} \times 0,1^2 \times 0,2 = 4 \times 10^{10}$ $[\text{NO}_2] = 2 \times 10^5 \text{ mol/L}$
	B)  éter
5	A) Hidroxila e carboxila
	B) Massa de $\text{C}_6\text{H}_8\text{O}_7 = 100 \text{ L} \times 9,6 \text{ g/L} = 960 \text{ g}$ $2 \text{ mols } \text{C}_6\text{H}_8\text{O}_7 \rightarrow 3 \text{ mols } \text{Ca}(\text{OH})_2$ $2 \times 192 \text{ g} \rightarrow 3 \times 74 \text{ g}$ $960 \text{ g} \rightarrow X \quad X = 555 \text{ g}$