



FÍSICO-QUÍMICA (QA)

FQ 01.

$$W = - P \times \Delta V = - 623,55 \text{ J}$$

$$Q = 528 \text{ cal} = 2207 \text{ J ou } 2,2 \text{ kJ}$$

$$\Delta U = Q + W = 1583 \text{ J ou } 1,58 \text{ kJ}$$

FQ 02.

$$\Delta H = - 1152 \text{ kJ mol}^{-1}$$

FQ 03.

$$\Delta S = nC_{v,m} \ln(T_2/T_1) + nR \ln(V_2/V_1)$$

$$\Delta S = + 12,9 \text{ J K}^{-1}$$

FQ 04.

$$t = 2720 \text{ anos}$$

FQ 05.

$$\text{espessura} = 0,013 \text{ cm}$$