

CONSTANTES FÍSICAS

| | Julios | Ergios | Calorías | Kw-h | Atm-l | Ev |
|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| Julios | 1 | 1.00×10^7 | 2.390×10^{-1} | 2.777×10^{-7} | 9.872×10^{-3} | 6.242×10^{18} |
| Ergios | 1.000×10^{-7} | 1 | 2.390×10^{-8} | 2.777×10^{-14} | 9.872×10^{-10} | 6.242×10^{11} |
| Calorías | 4.184 | 4.184×10^7 | 1 | 1.162×10^{-6} | 4.130×10^{-2} | 2.612×10^{19} |
| Kw-h | 3.600×10^6 | 3.600×10^{13} | 8.604×10^5 | 1 | 3.554×10^4 | 2.247×10^{25} |
| Atm-l | 1.013×10^2 | 1.013×10^9 | 2.421×10 | 2.813×10^{-3} | 1 | 6.323×10^{20} |
| Ev | 1.602×10^{-19} | 1.602×10^{-12} | 3.829×10^{-20} | 4.449×10^{-26} | 1.582×10^{-21} | 1 |

$$1 \text{ uma} = 1.65 \times 10^{-24} \text{ g} = 1.494 \times 10^{-10} \text{ julios} = 931.5 \text{ Mev}$$

$$1 \text{ g} = 6.023 \times 10^{23} \text{ uma}$$

$$1 \text{ cm}^{-1} = 1.986 \times 10^{-23} \text{ julios}$$

$$R = 0.082 \frac{\text{atm} \cdot \text{l}}{\text{mol} \cdot \text{K}} = 8.31 \frac{\text{julios}}{\text{mol} \cdot \text{K}} = 1.98 \frac{\text{cal}}{\text{mol} \cdot \text{K}} = 8309 \frac{\frac{\text{N}}{\text{m}^2} \text{ m}^3}{\text{mol}_{\text{kg}} \text{ K}}$$

$$Z(e^-) = 1.602 \times 10^{-19} \text{ culombios} = 4.80298 \times 10^{-10} \text{ ues (cm}^{3/2} \text{ s}^{-1})$$

$$1 D = 10^{-18} \text{ ues}$$

$$M(e^-) = 9.108 \times 10^{-28} \text{ g}$$

$$h = 6.62 \times 10^{-27} \text{ erg} \cdot \text{s}$$

$$1 \text{ Pa} = \frac{1}{1.013 \times 10^5} \text{ atm}$$

$$1 \text{ atm} = 1.013 \times 10^5 \text{ Pa}$$

$$1 \text{ bar} = 10^5 \text{ Pa}$$

$$1 \text{ poise} = 10^{-1} \frac{\text{kg}}{\text{m} \cdot \text{s}}$$

$$R = \frac{2 \pi^2 m e^4}{c h^3} = 109677.581 \text{ cm}^{-1}$$

$$1 \text{ Btu} = 0.252 \text{ kcal}$$

$$1 \text{ julio} = 0.24 \text{ cal}$$

$$1 \text{ ft} = 0.3048 \text{ m}$$

$$1 \text{ inch} = 0.0254 \text{ m}$$

$$1 \text{ lb} = 0.454 \text{ kg}$$

$$1 \text{ kg} = 9.8 \text{ N}$$

$$1 \text{ HP} = 746 \text{ w}$$

$$1 \text{ CV} = 735 \text{ w}$$

$$1^\circ \text{C} = 1.8^\circ \text{F}$$

$$1 \text{ K} = 1.8^\circ \text{R}$$

$$1 \text{ inch agua} = 248.84 \frac{\text{N}}{\text{m}^2}$$