

1 joule is equal to

If the temperature of the gas is equal to the inversion temperature, the Joule-Thomson coefficient is zero ($\mu = 0$), and there is no temperature change. Analysis of Other Options (B): The gas ...

Calorie, a unit of energy or heat variously defined. The calorie was originally defined as the amount of heat required at a pressure of 1 standard atmosphere to raise the temperature of 1 gram of water 1° Celsius. Since 1925 ...

Energy efficiency in gardening is becoming an increasingly important consideration as gardeners seek to optimize resources, reduce environmental impact, and enhance plant growth while ...

Kinetic Energy is the energy associated with an object moving with a velocity. For an object of mass m and velocity, its kinetic energy is half of the product of the mass of the object with the square of its velocity. In our daily ...

Given that 1 watt is equal to 1 joule per second, we can calculate the number of joules in a kilowatt-hour by considering the time span of one hour, which is 3600 seconds. The joule (J) is ...

If Voltage, Current and internal resistance are given then the formula of EMF is given as $\mathcal{E} = V + Ir$ Unit of EMF Since, in physical terms, EMF is equivalent to Potential Difference, thus its unit will also be the same as that of ...

One joule is defined as the amount of work done when a force of one newton moves an object one meter in the direction of the force. Mathematically: Since 1 newton (N) is equivalent to 1 ...

The unit Joule per coulomb refers to electric potential (voltage). When equal charge is given to spheres of different radii, the electric potential remains constant. The electric field near a ...

Joule Explained: What It Measures & Why You Should Care! The joule (pronounced "jool") is a fundamental unit of measurement that governs many aspects of our daily lives, even if we ...

Thus, the farad (F) can be expressed as: $1 \text{ farad} = 1 \text{ coulomb}^2 / 1 \text{ joule}$, $\text{1, text \{farad\} = frac \{1, text \{coulomb\}^2 \} \{1, text \{joule\} \}}$ $1 \text{ farad} = 1 \text{ joule} / 1 \text{ coulomb}^2$ This means that 1 farad is equivalent to 1 coulomb squared per joule. ...

The joule (symbol: J) is the SI (International System of Units) derived unit of energy, work, or amount of heat. Named after the English physicist James Prescott Joule, it quantifies energy in ...



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