

CONSTANTES, UNITÉS ET SYMBOLES USUELS

Quelques constantes fondamentales (IUPAC 2015)			
Grandeur physique	Symbole	Valeur	Unités
constante d'Avogadro	N_A	$6,02214179 \cdot 10^{23}$	mol^{-1}
vitesse de la lumière dans le vide	c, c_0	$2,99792458 \cdot 10^8$	$\text{m} \cdot \text{s}^{-1}$
accélération de la pesanteur	g	9,80665	$\text{m} \cdot \text{s}^{-2}$
charge élémentaire	e	$1,602176487 \cdot 10^{-19}$	C
volume molaire du gaz parfait à T.P.N.	V_m	$2,241410 \cdot 10^{-2}$	$\text{m}^3 \cdot \text{mol}^{-1}$
et sous 1 bar à 273,15 K	V_m°	$2,271108 \cdot 10^{-2}$	$\text{m}^3 \cdot \text{mol}^{-1}$
constante des gaz	R	8,314472	$\text{J} \cdot \text{K}^{-1} \cdot \text{mol}^{-1}$
	R	0,08205783	$\text{L} \cdot \text{atm} \cdot \text{K}^{-1} \cdot \text{mol}^{-1}$
constante de Boltzmann	k, k_B	$1,3806504 \cdot 10^{-23}$	$\text{J} \cdot \text{K}^{-1}$
constante de Planck	h	$6,62606896 \cdot 10^{-34}$	$\text{J} \cdot \text{s}$
constante de Faraday	F	$9,64853399 \cdot 10^4$	$\text{C} \cdot \text{mol}^{-1}$
constante de Rydberg	R_∞	$1,0973731534 \cdot 10^7$	m^{-1}
		$2,1798741 \cdot 10^{-18}$	J
unité de masse atomique	m_u, u	$1,6605402 \cdot 10^{-27}$	kg
masse de l'électron au repos	m_e	$9,1093897 \cdot 10^{-31}$	kg
masse du proton au repos	m_p	$1,6726231 \cdot 10^{-27}$	kg
masse du neutron au repos	m_n	$1,6749286 \cdot 10^{-27}$	kg
rayon de Bohr	a_0	$5,29177249 \cdot 10^{-11}$	m
perméabilité du vide	μ_0	$4\pi \cdot 10^{-7}$	$\text{N} \cdot \text{A}^{-2}$
permittivité du vide	ϵ_0	$8,854187817 \cdot 10^{-12}$	$\text{F} \cdot \text{m}^{-1}$

Alphabet grec					
Nom	minuscule	majuscule	Nom	minuscule	majuscule
Alpha	α	Λ	nu	ν	N
bêta	β	B	xi	ξ	Ξ
gamma	γ	Γ	omicron	$\omicron$	O
delta	δ	Δ	pi	π	Π
epsilon	ϵ	E	rho	ρ	P
zêta	ζ	Z	sigma	σ	Σ
êta	η	H	tau	τ	T
thêta	θ	Θ	upsilon	υ	Y
iota	ι	I	phi	ϕ	Φ
kappa	κ	K	chi	χ	X
lambda	λ	Λ	psi	ψ	Ψ
mu	μ	M	oméga	ω	Ω

Tables De Constantes

P Aigrain, Minko Balkanski



Tables De Constantes:

Tables for the Calculation of Tides by Means of Harmonic Constants International Hydrographic Organization, 1926 *Table of Dielectric Constants of Pure Liquids* Arthur Allen Maryott, Edgar Reynolds Smith, 1951

Tables annuelles de constantes et données numériques de chimie, de physique et de technologie, 1921
International Critical Tables of Numerical Data, Physics, Chemistry and Technology National Research Council (U.S.), 1928 *Selected Constants Relative to Semi-Conductors* P Aigrain, Minko Balkanski, 2013-10-02

Selected Constants Relative to Semi Conductors presents the physical constants of semiconductors in Table form The values of the electronic properties of semiconductors presented in the Table are parameters intended for use in theoretical and phenomenological equations relative to the band theory for these materials In addition to data specific to band structure the Table also includes mobilities of electrons and holes and their variation with temperature Data of a general physical character are also presented since the researcher very often finds use for values of this type The following quantities are given when available symmetry group and crystal parameters refractive index dielectric constant effective ionic charge work function photoemission work function piezoresistance coefficient elastic coefficients phonon temperature Debye temperature magnetic susceptibility coefficient of linear expansion fusion temperature sublimation temperature specific heat at constant pressure latent heat of fusion latent heat of sublimation thermal conductivity disorder factor and density *VDI-Wasserdampftafeln / VDI-Steam Tables / Tables VDI des constantes de la vapeur d'eau* Werner Koch, 2013-07-02 International Critical Tables of Numerical Data, Physics, Chemistry and Technology Edward Wight Washburn, 1926 **VDI-Wasserdampftafeln / VDI-Steam Tables / Tables VDI des constantes** Werner Koch, 2013-08-13

Ma einheiten Bezeichnungen und Vereinbarungen I In den internationalen Konferenzen ber Ma einheiten hat man sich in den letzten Jahren auf das MKS System geeinigt mit den Grundeinheiten Meter Kilogramm Masse und Sekunde Einheit der Kraft 2 in diesem System ist die Kraft die der Masse 1 kg die Beschleunigung 1 m/s² erteilt sie hei t Newton ab 5 gek rzt N es ist 1 N 10 dyn Einheit der Energie und damit auch der W rmemenge ist das Newton Meter das man mit Joule abgek rzt J bezeichnet ein Joule ist gleich einer Wattsekunde Einheit des Druckes ist das Newton je Quadratmeter Da diese Gr e recht klein ist wird ein dezimales Vielfaches davon 5 2 das Bar benutzt 10 N/m² 1 bar

Temperaturen werden gemessen in der Kelvinskala definiert durch den absoluten Nullpunkt bei K und den Tripelpunkt des Wassers bei 273 16 0K Der Eispunkt dem man bisher die Temperatur 273 16 K zuschrieb liegt dann bei 273 15 0K Diese geringe nderung von 0 01 K gegen die fr here Festlegung ist praktisch belanglos Die Ben tzung des MKS Systems wird angestrebt aber seine Einf hrung erfordert eine l ngere ber gangszeit w hrend der man auf die Kalorie und das Kraftkilogramm noch nicht verzichten k nnen Diese Einheiten verlieren aber ihre urspr ngliche Bedeutung als selbst ndige Grundeinheiten sondern sie werden auf die Einheiten des MKS Systems mit Hilfe von Umrechnungszahlen zur ckgef hrt

International Compendium of Numerical Data Projects CODATA (The Committee on Data for Science and

Technology of the International Council of Scientific Unions), 2012-12-06 At the time of its establishment in 1966 by the International Council of Scientific Unions ICSU the Committee on Data for Science and Technology CODATA was given the basic mission of promoting and encouraging on a worldwide basis the production and distribution of compendia and of collections of critically selected numerical data on substances other forms of interest and importance to science and technology To accomplish this aim the following tasks were assigned to CODATA 1 To ascertain on a worldwide basis what work on compilation of numerical data is being carried on in each country and under each union and from this information to prepare and distribute a Directory or Compendium of the Data Compiling Projects and Related Publications of the World 2 To achieve coordination of existing programs and to recommend new programs 3 To encourage from all appropriate sources financial support for work on compilation 4 To encourage the use of internationally approved symbols units constants terminology and nomenclature 5 To encourage and coordinate research on new methods for preparing and disseminating data for science and technology In its first two years of operation 1966 to 1968 in Washington D c U S A CODATA fortunately had as its Director Dr GUY WADDINGTON who was also Director of the Office of Critical Tables of the National Research Council NRC U S A Dr *How to Find Out About Physics* B. Yates, 2013-10-22 *How to Find Out about Physics* A Guide to Sources of Information Arranged by the Decimal Classification is an index of materials in physics The scheme of presentation in the selection utilizes the Dewey Decimal Classification The text first covers the careers in physics The subsequent chapters deal with various physics materials such as books handbooks dissertations periodicals and abstracts The remaining chapters cover specific areas of physics which includes optics relativity quantum mechanics and nuclear physics The book will be of great use to students librarian and physicists

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