

Clock by Rydberg

Item	Unit Symbol	Raw Value	Power	Unit Value	suffix <i>h</i>	difference	digit	Decimal		
Local Time	s									
Length	m	9.1210202714E-08	6	2.7235220594E-01	error/year		-3	272.352206	mm	
Time	s	3.0424448741E-16	14	3.9062511513E-01	9.3005 seconds		-3	390.625115	ms	
Energy	J	3.4661986043E-19	16	6.4084556015E-02			-3	64.084556	mJ	
Temperature	K	2.5105574294E+04	-8	5.8387541906E-05			-6	58.387542	µK	
Amount of substance	mol	1.6605390672E-24	24	1.3200762050E+02			0	132.007620	mol	
Mass	g	3.8566660714E-36	32	1.3182928928E-01			-3	131.829289	g	
Power	W	1.1392806600E-03	2	1.6405641505E-01			-3	164.056415	mW	
Force	N	3.8002312254E-12	10	2.3530030092E-01			-3	235.300301	mN	
Pressure	P	4.5679693393E+02	-2	3.1722009301E+00			0	3.172201	Pa	
Charge	C	1.8755460383E-18	15	2.8896578276E-02			-3	28.896578	mC	
Electric current	A	6.1646015487E-03	1	7.3975218585E-02			-3	73.975219	mA	
Field Strength	O	6.7586754171E+04	-5	2.7161600667E-01			-3	271.616007	mA/m	
Flux density	G	2.2544514502E-04	3	3.8956921060E-01			-3	389.569211	mC/m²	
Impedance	Ω/ sr	2.9979245816E+01	0	2.9979245816E+01			0	29.979246	Ω	
Electric potential difference	ΩA	1.8481010519E-01	1	2.2177212623E+00			0	2.217721	V	
Electric capacitance	s/Ω	1.0148503711E-17	14	1.3029851302E-02			-3	13.029851	mF	
Magnetic flux	ΩC	5.6227455722E-17	15	8.6629762339E-01			0	0.866298	Wb	
Magnetic flux density	ΩG	6.7586754208E-03	3	1.1678991127E+01			0	11.678991	T	
Inductance	sΩ	9.1210202764E-15	14	1.1710646348E+01			0	11.710646	H	
Frequency	Ω ₁ /s	3.2868303005E+15	-14	2.5599992455E+00			0	2.559999	Hz	
Luminous flux	W _e	8.0324452663E-01	2	1.1566721184E+02			0	115.667212	lm	
Luminous intensity	W _e /sr	8.0324452663E-01	2	1.1566721184E+02			0	115.667212	cd	
	W _e /Ω ₂	6.3920168463E-02	2	9.2045042586E+00			0	9.204504	cd	
Illuminance and luminous emittance	W _e /m²	9.6551924133E+13	-10	1.5593674786E+03			3	1.559367	klx	
Catalytic activity	mol/s	5.4579101212E-09	10	3.3793940888E+02			0	337.939409	kat	
Radio activity	mol _n /s	3.2868303005E-15	-14	2.5599992455E+00			0	2.559999	Bq	
Absorbed radiation dose	J/g	8.9875517874E+16	-16	4.8611773880E-01			0	0.486118	Gy	
Equivalent dose	J _e /g	8.9875517874E+16	-16	4.8611773880E-01			0	0.486118	Sv	
Item	Unit Symbol	Raw Value	Power	Value/Unit	Dozenal	difference	digit	0123456789XE	Power	
Fine Structure Constant	-	7.2973525693E-03	10	7.2973525693E-03	1;07399404XX	5.082%	-2	1.050819	dino	
Avogadro constant	1/mol	6.0221407600E+23	10	7.9496847203E+25	1;0000000000	0.000%	24	1.000000	ter-cosmic	
Rydberg constant	Ω ₁ /m	1.0973731568E+07	12	2.9887200000E+06	1;001700000000	0.092%	6	1.000916	dino cosmic	
Speed of light in vacuum	m/s	2.9979245800E+08	12	4.2998169600E+08	1;000000000000	0.000%	8	1.000000	cosmic	
Quantum of action	Js	1.0545718176E-34	10	4.2127202331E-33	1;0000000000	0.000%	-30	1.000000	gross tetra-atomic	
Boltzmann constant	J/K	1.3806490000E-23	10	1.2579115212E-26	1;0000000000	0.000%	-24	1.000000	ter-atomic	
Gas constant	J/(mol K)	8.3144626182E+00	10	1.0000000000E+00	1;0000000000	0.000%	0	1.000000		
Unified atomic mass unit	kg	1.6605390666E-27	10	1.2596131524E-26	1;0024073296	0.135%	-24	1.001353	ter-atomic	
Bohr Radius	m	5.2917721090E-11	10	1.9429885250E-10	1;00447X7422	0.254%	-9	1.002539	unino atomic	
Elementary electric charge	C	1.6021766340E-19	10	5.5445202497E-18	1;0374439E14	2.509%	-16	1.025095	di-atomic	
Electron mass	kg	9.1093837015E-31	10	6.9099846862E-30	0;E48324X199	-5.077%	-27	0.949228	terno ter-atomic	
Proton mass	kg	1.6726219237E-27	10	1.2687786855E-26	1;012E180X79	0.864%	-24	1.008639	ter-atomic	
Newtonian constant of gravitation	(m/s)⁴/N	6.6743000000E-11	5	6.6457694051E-11	4;14663	2.872%	-10	4.114885	dino atomic	
Planck force	N	1.2102555643E+44	5	5.1434509841E+44	2;XEE32	-0.015%	1	41	2.916242	dozen penta-cosmic
Gravitic meter	m	9.5618936743E-35	5	3.5108559673E-34	1;000016	0.007%	-31	1.000073	dozen tetra-atomic	
Planck length	m	1.6162550244E-35	5	5.9344297170E-35	2;04134	1.426%	-32	2.028518	tetra-atomic	
Adjusted Planck length	m	1.8920265361E-34	5	6.9469844373E-34	1;E8E58	-1.057%	-31	1.978859	dozen tetra-atomic	
Stefan-Boltzmann constant	W/m²/K⁴	5.6703744192E-08	10	2.9796213807E-25	1;E82E281EX2	-1.304%	-23	1.973921	dozen ter-atomic	
Black-body radiation at the ice point	W/m²	3.1565782231E+02	6	1.4272009738E+02	0;EX8784	-0.889%	2	0.991112	gross	
Temperature of the triple point of water	K	2.7316000000E+02	6	4.6783952721E+06	1;6974X3		6	1.566785	dino cosmic	
Molar volume of an ideal gas	m³/mol	2.2413969540E-02	6	1.4646204322E+02	1;025665	1.710%	2	1.017098	gross	
-log(Sqrt([H+][OH-]))/(mol/m³³)	log(12)	1.0039920318E-04	4	7.2401888688E+00	7;2X71		0	7.240189		
Maximum density of water	kg/m³	9.9997200000E+02	6	1.5323875701E+02	1;092X47	6.416%	2	1.064158	gross	
Density of ice at the ice point	kg/m³	9.1680000000E+02	4	1.4049322623E+02	0;E85E	-2.435%	2	0.975647	gross	
Specific heat of water	J/kg/K	4.1840000000E+03	4	5.0253972615E-01	6;0448	0.508%	-1	6.030477	unino	
Surface tension of water at 25°C	N/m	7.1970000000E-02	4	8.3302861003E-02	0;EEE4	-0.037%	-1	0.999634	unino	
photon energy at 540THz	J	3.5780778810E-19	10	5.5833700091E-18	1;047937345E	3.228%	-16	1.032277	di-atomic	
(according to the definition of candela)	eΩA	2.2332605563E+00	10	1.0070068743E+00	1;0101364E83	0.701%	0	1.007007	(1.00 for 536.24THz)	
Buoyancy of saltwater (1.024)	P/m	1.0041728424E+04	6	8.6214175834E+02	5;EX184	-0.215%	2	5.987096	gross	
Sea depth at standard atmosphere	m	1.0090394375E+01	6	3.7049064243E+01	3;107095	0.133%	1	1	3.087422	dozen
Standard atmosphere	P	1.0132500000E+05	10	3.1941545392E+04	1;659966652E	-0.083%	2	4	1.540391	hyper
Standard gravitational acceleration	m/s²	9.8066500000E+00	7	5.4942713405E+00	5;5E21264	-8.429%	0	0	5.494271	
Gravitational radius of the Earth	m	4.4350280391E-03	10	1.6284164190E-02	2;418030652		-2	2.344920	dino	
Equatorial radius of the Earth	m	6.3781400000E+06	7	2.3418719808E+07	0;7X145E		7	0.653573	unino cosmic	
Meridian length of the Earth / 4	m	1.0001965000E+07	7	3.6724376678E+07	1;0370649	2.491%	7	1.024910	unino cosmic	
Gravitational radius of the Sun	m	1.4766250158E+03	8	5.4217479557E+03	3;179E857		3	3.137586	doz gross	
The diameter of the solar mass black hole	m	5.9065000632E+23	8	2.1686991823E+04	1;0672EX9X		4	1.045862	hyper	
Astronomical unit	m	1.4959787000E+11	9	5.4928091911E+11	8;X55509X31		10	8.871194	gross cosmic	
Astronomical unit / c0	s	4.9900478150E-02	9	1.2774518641E+03	8;X55509X31		2	8.871194	gross	
Astronomical unit / c0 / (12 ⁻⁽³⁾ day ⁻¹)	-	9.9800956300E+00	9	9.9800956300E+00	9;E91731X53		0	9.980096		

Units

Constants

