

PERIODIC TABLE

Atomic Properties of the Elements

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce

Frequently used fundamental physical constants																		Physics Laboratory		Standard Reference Data							
For the most accurate values of these and other constants, visit physics.nist.gov/constants																		physics.nist.gov		www.nist.gov/srd							
1 second = 9 192 631 770 periods of radiation corresponding to the transition between the two hyperfine levels of the ground state of ¹³³ Cs																											
speed of light in vacuum c = 299 792 458 m s ⁻¹ (exact)																											
Planck constant h = 6.626 070 15 × 10 ⁻³⁴ J s (exact)																											
elementary charge e = 1.602 176 634 × 10 ⁻¹⁹ C																											
electron mass m _e = 9.109 383 56 × 10 ⁻³¹ kg																											
proton mass m _p = 1.672 621 9 × 10 ⁻²⁷ kg																											
fine-structure constant α = 1/137.036																											
Rydberg constant R _∞ = 10 973 731.568 162 m ⁻¹																											
Bohrmann constant k _B = 1.380 658 × 10 ⁻²³ J K ⁻¹																											

Atomic Number: 58
Ground-state Level: $4f^7 5d^1 6s^2$

Symbol: **Ce**

Name: Cerium

Atomic Weight: 140.116
([Xe]4f⁷5d¹6s²)

Ground-state Configuration: [Xe]4f⁷5d¹6s²

Ionization Energy (eV): 5.5387

¹Based upon ¹²C. () indicates the mass number of the longest-lived isotope.

For a description of the data, visit physics.nist.gov/data

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Wolfgang Guggemos



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