

OVERVIEW		
Full Name	Indium (None)	
Symbol	In	
Atomic Number	49	
Series	Poor Metal	
Block / Group / Period	p-block Group 13 Period ...	
Electron Config.	[Kr]5s24d105p1	
Phase at STP	Solid	
Colour	Silver	
Discovery	1863 in Germany	
THERMAL PROPERTIES		
Melting Point	156.6 °C	°C
Melting Point (abs.)	429.75 K	K
Boiling Point	2072 °C	°C
Boiling Point (abs.)	2345 K	K
Heat of Fusion	3.26 kJ/mol	kJ/mol
Heat of Vaporization	230 kJ/mol	kJ/mol
Specific Heat (solid)	233 J/(kg K)	J/(kg·K)
Thermal Conductivity	82 W/(m K)	W/(m·K)
Thermal Expansion	0.0000321 K ⁻¹	K ⁻¹
MECHANICAL PROPERTIES		
Density (solid, STP)	7.31 g/cm ³	g/cm ³
Density (liquid, MP)	7.02 g/cm ³	g/cm ³
Young's Modulus	11 GPa	GPa
Speed of Sound	1215 m/s	m/s
Mohs Hardness	1.2	
Brinell Hardness	8.83 MPa	MPa
ELECTRICAL PROPERTIES		
Type	Conductor	
Conductivity	1.2×10 ⁷ S/m	S/m
Resistivity	8.000000000001×10 ⁻⁸ Ω·m	Ω·m
Superconducting Pt.	3.41	K
MAGNETIC PROPERTIES		
Type	Diamagnetic	
Vol. Susceptibility	-0.0000102	
Mass Susceptibility	-1.4×10 ⁻⁹ m ³ /Kg	m ³ /kg
REACTIVITY		
Valence	3	
Electronegativity	1.78	(Pauling)
Electron Affinity	28.9 kJ/mol	kJ/mol
Ionization Energies	558.3, 1820.7	kJ/mol
ATOMIC DIMENSIONS		
Atomic Radius	156 pm	pm
Covalent Radius	142 pm	pm
Van der Waals Radius	193 pm	pm
CRYSTAL STRUCTURE		
Structure	Centered Tetragonal	
Lattice Constant	325.23, 325.23, 494.61 pm	
Space Group	14/mmm	#139
ISOTOPES & NUCLEAR		
Stability	Stable	
Stable Isotopes	113In	
Isotopic Abundance	113In4.29%115In95.71%	
Known Isotopes	97In ■ 135In (39 total)	
Neutron Cross Sect.	194	barns
ELEMENTAL ABUNDANCES		
Universe	3×10 ⁻⁸ %	%
Earth's Crust	0.000016%	%
Oceans	1×10 ⁻¹¹ %	%
HEALTH & SAFETY		
DOT Hazard Class	4.1	
RTECS Number	NL1050000	
NFPA Health/Fire/Rx	0 / 0 / 0	