

Electronic configuration of Lanthanum and Lanthanoids

Name of the element	Atomic number	Symbol	Electronic configuration
Lanthanum	57	La	$[\text{Xe}] 4f^0 5d^1 6s^2$
Cerium	58	Ce	$[\text{Xe}] 4f^1 5d^1 6s^2$
Praseodymium	59	Pr	$[\text{Xe}] 4f^3 5d^0 6s^2$
Neodymium	60	Nd	$[\text{Xe}] 4f^4 5d^0 6s^2$
Promethium	61	Pm	$[\text{Xe}] 4f^5 5d^0 6s^2$
Samarium	62	Sm	$[\text{Xe}] 4f^6 5d^0 6s^2$
Europium	63	Eu	$[\text{Xe}] 4f^7 5d^0 6s^2$
Gadolinium	64	Gd	$[\text{Xe}] 4f^7 5d^1 6s^2$
Terbium	65	Tb	$[\text{Xe}] 4f^9 5d^0 6s^2$
Dysprosium	66	Dy	$[\text{Xe}] 4f^{10} 5d^0 6s^2$
Holmium	67	Ho	$[\text{Xe}] 4f^{11} 5d^0 6s^2$
Erbium	68	Er	$[\text{Xe}] 4f^{12} 5d^0 6s^2$
Thulium	69	Tm	$[\text{Xe}] 4f^{13} 5d^0 6s^2$
Ytterbium	70	Yb	$[\text{Xe}] 4f^{14} 5d^0 6s^2$
Lutetium	71	Lu	$[\text{Xe}] 4f^{14} 5d^1 6s^2$