

Group 18 (Inert gases) elements Physical Properties

The common physical properties of the group 18 elements are listed in the Table.

Property	Neon	Argon	Krypton	Xenon	Radon
Physical state at 293 K	Gas	Gas	Gas	Gas	Gas
Atomic Number	10	18	36	54	86
Isotopes	^{20}Ne	^{40}Ar	^{84}Kr	^{132}Xe	^{211}Rn , ^{220}Rn , ^{222}Rn
Atomic Mass (g.mol ⁻¹ at 293 K)	20.18	39.95	77.92	131.29	[222]
Electronic configuration	[He]2s ² 2p ⁶	[Ne]3s ² 3p ⁶	[Ar]3d ¹⁰ 4s ² 4p ⁶	[Kr]4d ¹⁰ 5s ² 5p ⁶	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶
Atomic radius (Å)	1.54	1.88	2.02	2.16	2.20
Density (g.cm ⁻³ at 293 K)	8.25 x 10 ⁻⁴	1.63 x 10 ⁻³	3.42 x 10 ⁻³	5.37 x 10 ⁻³	9.07 x 10 ⁻³
Melting point (K)	24.56	83.81	115.78	161.4	202
Boiling point (K)	27.104	87.30	119.74	165.05	211.5