

Group 15 (Nitrogen group) elements Physical Properties

Some of the physical properties of the group 15 elements are listed below

Property	Nitrogen	Phosphorus	Arsenic	Antimony	Bismuth
Physical state at 293 K	Gas	Solid	Solid	Solid	Solid
Atomic Number	7	15	33	51	83
Isotopes	^{14}N , ^{15}N	^{31}P	^{75}As	^{121}Sb	^{209}Bi
Atomic Mass (g.mol ⁻¹ at 293 K)	14	30.97	74.92	121.76	209.98
Electronic configuration	[He]2s ² 2p ³	[Ne]3s ² 3p ³	[Ar]3d ¹⁰ 4s ² 4p ³	[Kr]4d ¹⁰ 5s ² 5p ³	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ³
Atomic radius (Å)	1.55	1.80	1.85	2.06	2.07
Density (g.cm ⁻³ at 293 K)	1.14 x 10 ⁻³	1.82 (white phosphorus)	5.75	6.68	9.79
Melting point (K)	63	317	Sublimes at	904	544
Boiling point (K)	77	554		889	1860