

Liquid Helium

Helium

He²

4,0026

1s²

Helium

is named after the Greek
"Helios", meaning "Sun".

Noble Gas

Noble Gas



Gas

Colourless gas,
purple glow in high
voltage electric field.
Airships, lasers,
balloons, cryogenic
applications.



Neon in electric field

Neon **Ne**¹⁰

20,18

[He] 2s² 2p⁶

Neon

is derived from the Greek
"neos", meaning "new".

Noble Gas

Noble Gas



Neon
sign

Gas.

Colourless gas,
orange-red glow in
high voltage electric
field.

Neon signs,



Melting Argon ice

Argon **Ar**¹⁸

39,948

[Ne] 3s² 3p⁶

Argon
is named after the Greek
"argon" meaning "inactive"
or literally "lazy".

Noble Gas



Noble Gas

Gas

Colourless gas,
lilac/violet glow in
high voltage electric
field.

Used in light bulbs
and lasers.



Krypton
in electric field

Krypton Kr^{36}
83,8



Krypton

is derived from the Greek
"kryptos", meaning "the
hidden one".

Noble Gas

Noble Gas



Gas

Colourless gas, whitish glow in a high voltage electric field. Used in fluorescent bulbs, UV lasers, atomic clocks.



XeF₄ crystals

Xenon

Xe⁵⁴

131,29

[Kr] 4d¹⁰5s² 5p⁶

Noble Gas



Xenon

is derived from the Greek adjective "xenos", meaning "foreign" or "a stranger".

Noble Gas



Xenon flash

Gas

Colourless gas, blue glow in a high voltage electric field. Uses: photographic flashes, stroboscopic lamps, UV lamps.



Radon test kit

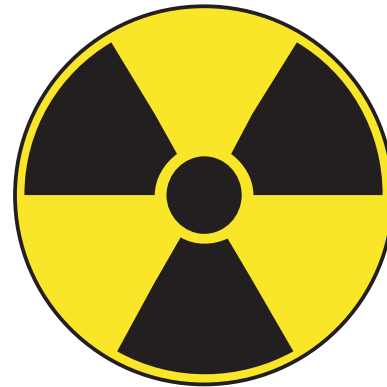
Radon **Rn**⁸⁶

222,02

[Xe] 4f¹⁴5d¹⁰6s² 6p⁶

Radon
is a contraction of "Radium
emanation", since Radon
appears in the radioactive
decay of radium.

Noble Gas



²²²Rn decays with a half-life
of 3,8 days.

Noble Gas

Gas

Colourless, radio-
active gas. It is one
of the heaviest gases
at room temperature.
Used in earth quake
prediction.