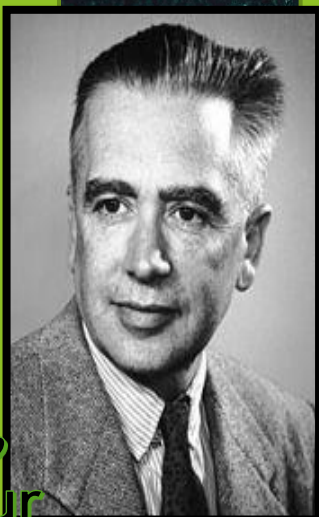


# ASTATINE

GROUP: 18

## PROPERTIES

Astatine is a radioactive chemical element. It is the rarest naturally occurring element in the Earth's crust, occurring only as the decay product of various heavier element. all of Astatine's isotopes are short-lived; the most stable is Astatine-210 with a half-life of 8.1 hours.



## Discovery and Origin

The first synthesis of the element was in 1940 by Dale R. Corson, Kenneth Ross MacKenzie, and Emilio G. Segrè at the University of California, Berkeley, who named it from the Greek *astatos*, meaning "unstable". Four isotopes of astatine were subsequently found to be naturally occurring, although much less than one gram is present at any given time in the Earth's crust.



## USES

Astatine can be used in the treatment of thyroid cancer and as a radioactive tracer