

Ununseptium has no naturally-occurring isotopes.



Ununseptium is the superheavy artificial chemical element with the temporary symbol *Uus*. The element, also known as *eka-astatine* or simply element 117, is the second-heaviest of all the elements that have been created so far and is the second-to-last element of the 7th period of the periodic table. Its name derives from Latin roots meaning “one” and “seven” (*un-* and *sept-*). An article published in *Physical Review Letters* on April 5, 2010, claims the identification by a joint Russian-American collaboration of six atoms of the isotopes Ununseptium-293 (five atoms) and Ununseptium-294 (one atom) in fusion reactions between Calcium-48 and Berkelium-249. Decay chains involving eleven nuclei were identified by means of the Dubna Gas Filled Recoil Separator. The claims have not been confirmed.

Properties of Ununseptium

Name	Ununseptium
Symbol	Uus
Atomic number	117
Atomic weight	[294]
Standard state	Presumably a solid at 298 °K
CAS Registry ID	87658-56-8
Group in periodic table	17
Group name	Halogen
Period in periodic table	7
Block in periodic table	p-block
Color	Unknown, but probably metallic and dark in appearance
Classification	Unknown
Melting point	No data available
Boiling point	No data available
Density of solid	7.2 g/cm ³ (predicted)
Electron configuration	[Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵ (predicted)