

^{184}Re

In 1940, Fajans and Sullivan observed ^{184}Re at the University of Michigan as reported in “Induced radioactivity of rhenium and tungsten” ([1940Fa01](#)). Tungsten targets were bombarded with protons and resulting activities and γ -ray spectra were measured following chemical separation. “The 52-day activity, which was identified as a rhenium isotope through a series of chemical reactions, has been assigned to mass number 184 for the following reasons. It is produced from rhenium by fast neutrons (n,2n reaction from Re^{185}), and appears in rhenium, chemically separated from tungsten bombarded with deuterons (probably a d,n reaction from W^{183} , although a d,2n reaction from W^{184} is an additional possibility).”

Adapted from reference ([2012Ro36](#))

- [1940Fa01](#) K. Fajans and W. H. Sullivan, Phys. Rev. **58**, 276 (1940).
[2012Ro36](#) R. Robinson and M. Thoennessen, At. Data Nucl. Data Tables **98**, 911 (2012).

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