

## <sup>75</sup>Br

Woodward et al. described the first observation of <sup>75</sup>Br in the 1948 paper “Radioactive Br Isotopes” (1948Wo08). Deuterons and protons from the Ohio State cyclotron bombarded enriched <sup>74</sup>Se targets. Gamma- and  $\beta$ -rays were measured with a Wulf electrometer attached to a Freon-filled ionization chamber. “In the decay curve of activity from Se<sup>74</sup>+p bombardment, a  $125\pm 5$ -day half-life appeared which was presumed to be that of Se<sup>75</sup>. The ratio of reaction cross sections for production of the 1.7-hour Br activity compared to the 127-day Se<sup>75</sup> activity by proton bombardment was determined to be approximately one. This indicated that the 1.7-hour Br activity decays into the 127-day Se<sup>75</sup> period. From this data, assignment of the 1.7-hour activity was made to Br<sup>75</sup> as a Se<sup>74</sup>(p, $\gamma$ ) reaction.”

Adapted from reference (2012Gr02)

- 1948Wo08 L. L. Woodward, D. A. McCown, and M. L. Pool, Phys. Rev. **74**, 870 (1948).  
2012Gr02 J. L. Gross, J. Claes, J. Kathawa, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 75 (2012).

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