

## <sup>81</sup>As

Morinaga et al. discovered <sup>81</sup>As in 1960 at Tohoku University in Sendai, Japan, which was reported in “Three new isotopes, <sup>63</sup>Co, <sup>75</sup>Ga, <sup>81</sup>As” (1960Mo01). Selenium was bombarded with 25 MeV bremsstrahlung in the betatron and produced via the reaction <sup>82</sup>Se( $\gamma$ ,p). “Besides all previously known activities a very short-lived component with approximately 30 sec was observed...Fig. 6 shows the half-life of this short half-lived activity measured by the plastic scintillator discriminated at 2.3-MeV. From this measurement the half-life was determined to be  $32\pm 2$  sec.” Chemical separations were performed to confirm the activity was due to arsenic. It should be mentioned that in the same month (February 1960) C. Ythier confirmed the results (1960Yt02). C. Ythier had submitted his paper about three months later and was aware of the Morinaga manuscript.

Adapted from reference (2010Sh34)

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1960Yt02 C. Ythier, Compt. Rend. **250**, 1630 (1960).  
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