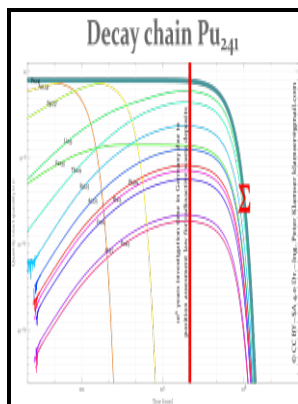


# Half-life of some long-lived actinides - a compilation.

Commission of the European Communities - Radioactivity : Minor Actinides



Description: -

-half-life of some long-lived actinides - a compilation.

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Eur 5194half-life of some long-lived actinides - a compilation.

Notes: Prepared under the auspices of the Joint Nuclear Research Centre, Geel Establishment, Central Bureau for Nuclear Measurements.

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## Half

The element may not be identical to the one that the body needs but might, for example, be in the same group of the periodic table and therefore have similar chemical properties. The team showed that support ratios of over 1.

## Neutronic Analysis for Transmutation of Minor Actinides and Long

HOOTON, The Non-existence of an Isomeric State in  $^{241}\text{Pu}$ , AERE-R, 9631, 1980.

## A fast reactor system to shorten the lifetime of long

However, the development of an efficient partitioning process is based on the design of a highly selective hydrophilic ligand or lipophilic extractant, that must fulfil specific requirements of solvent extraction chemistry, such as: a high affinity and selectivity toward the target element s to be separated, fast mass transfer kinetics, high chemical resistance, etc. These can be recovered by either before or after most  $^{137}\text{Cs}$  and  $^{90}\text{Sr}$  decay and fissioned, offering the possibility of greatly reducing waste radioactivity in the time scale of about  $10^3$  to  $10^5$  years.

## Radiotoxicity

NICHOLS, Current Status of Evaluated Heavy Element Decay Data for Reactor Calculations: Problems and Anomalies-May 1979, AEEW-R 1251, 1979.

## A fast reactor system to shorten the lifetime of long

This study presents the transmutations of both the minor actinides MAs:  $^{237}\text{Np}$ ,  $^{241}\text{Am}$ ,  $^{243}\text{Am}$  and  $^{244}\text{Cm}$  and the long-lived fission products LLFPs:  $^{99}\text{Tc}$ ,  $^{129}\text{I}$  and  $^{135}\text{Cs}$ , discharged from high burn-up PWR-MOX spent fuel, in a fusion-driven transmuter FDT and the effects of the MA and LLFP volume fractions on their transmutations. The americium output was also decontaminated versus lanthanides as only 2. Bis-triazinyl-bi pyridines, although not very stable chemically, are another good example of linear nitrogen-donor ligands that are highly selective toward An III, thanks to their particular mode of polydentate complexation.



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