

## TECHNETIUM IN THE ENVIRONMENT%0A

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Since the discovery of technetium (in 1937, by Perrier and Segre), technetium-99 and technetium-99m have become most familiar in the specialised literature, the behaviour of the former being of concern regarding its health impact, the latter having been used intensively in medical tests for many years.

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[Radionuclide Basics: Technetium-99 | Radiation Protection ...](#)

Technetium-99 (chemical symbol Te-99) is a silver-gray, radioactive metal. It occurs naturally in very small amounts in the earth's crust, but is primarily man-made. Technetium-99m is a short-lived form of Te-99 that is used as a medical diagnostic tool.

[Technetium - Element information, properties and uses ...](#)

Even so, some technetium atoms are produced as uranium undergoes nuclear fission and there is about 1 milligram of technetium in a tonne of uranium. Claims in the 1920s to have found this element, or at least to have observed its spectrum, cannot be entirely discounted.

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[Technetium in the Environment \(eBook, 1986\) \[WorldCat.org\]](#)

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[Technetium - Wikipedia](#)

Technetium is a chemical element with symbol Te and atomic number 43. It is the lightest element whose isotopes are all radioactive; none are stable, excluding the fully ionized state of <sup>97</sup>Te. Nearly all technetium is produced synthetically, and only about 18000 tons can be found at any given time in the Earth's crust.

### Sources and behavior of technetium in the environment

...

Technetium is a man-made element produced in increasing amounts during the last decades. The chemical and physical properties of some technetium compounds are considered, and a discussion of possible source terms is included.

### Technetium (Tc) - Chemical properties, Health and ...

Technetium in the environment Technetium is rarely encountered outside nuclear facilities or research laboratories. World production of technetium runs to many tonnes because this element is extracted from spent nuclear fuel rods.

### Technetium, Chemical Element - reaction, uses, elements ...

Technetium-steel has limited uses, however, because technetium is radioactive. People cannot be exposed to technetium-steel directly. People cannot be exposed to technetium-steel directly. Technetium is a popular diagnostic tool in medicine.

### Technetium-99 - Wikipedia

Technetium-99 (<sup>99</sup>Tc) is an isotope of technetium which decays with a half-life of 211,000 years to stable ruthenium-99, emitting beta particles, but no gamma rays. It is the most significant long-lived fission product of uranium fission, producing the largest fraction of the total long-lived radiation emissions of nuclear waste .

### Metals in Medicine and the Environment

Technetium's characteristics, however, allow it to pass through the body with ease and quickly (2,4). Tc-99m/<sup>99m</sup>Tc/<sup>99</sup>Tc Technetium-99m is the most prevalent diagnostic agent in nuclear medicine.

### Study on Determination of Technetium -99 in Environmental ...

P-4a-237-1 Study on Determination of Technetium -99 in Environmental Samples Shing-Fa Fang<sup>1</sup> and Tieh-Chi Chu<sup>2</sup> <sup>1</sup>Division of Health Physics, Institute of Nuclear Energy Research,

### Technetium | Encyclopedia.com

TECHNETIUM (REVISED) Note: This article, originally published in 1998, was updated in 2006 for the eBook edition. Overview Technetium is the only element below uranium that does not exist on Earth [1]. It is a synthetic (man-made) element produced in a particle accelerator [2].

### THE BIOGEOCHEMISTRY OF TECHNETIUM: A REVIEW OF THE ...

sources of technetium in the environment Technetium Due to Spontaneous Fission of <sup>238</sup>U Nearly all of the

technetium in existence today is the result of either neutron or deutron activation of