Technetium (Tc)

Atomic number: 43 < > Atomic mass: 98 <

Description: The name is derived from the Greek 'tekhnetos' meaning artificial.

Discovered by: Carlo Perrier and Emligo Segre in 1937.

Properties:

Melting point: 2430K Boiling point: 4535K

Density: 11 g/cm³ State: Solid

Group: 7 Period: 5 Block: d

Electronic Configuration: [Kr] 4d⁵5s²

Isotopes: NA

Appearance: A radioactive, silvery metal that does

not occur naturally.



Uses:

1) The gamma- ray technetium- 99m (metastable) is widely used for medical diagnostic studies. Several chemical forms are used to image different parts of body.

2) It is a remarkable corrosion for steel, and adding very small amounts can provide excellent protection. This use is limited to closed systems as technetium is radioactive.

Source: www.rsc.org

