



β

Beta Energy: 5.7 keV average
(18.6 keV max)

Range in air: 0.25 inches

Range in lucite: insignificant

Shielding: none required

Critical Organ: body water or tissue

Exposure Routes: inhalation, ingestion,
skin absorption

Dosimetry: none required

Bioassay:¹ Urine

Detection & Measurement

GM Pancake: no response

Liquid Scintillation Counting—smear test
required

Half Life

Physical: 12.3 years

Biological: 10-12 days

Effective: 10-12 days

T
1/2

Special Precautions:

- ⚠ Analyze surface and hand smears by LCS for removable contamination;
- ⚠ Portable survey meters cannot detect laboratory quantities of tritium;
- ⚠ Tritium compounds may penetrate gloves and skin—handle these materials remotely (ie tongs);
- ⚠ Use double gloves and change the external pair often;
- ⚠ Tritium spreads easily and is difficult to detect--report all spills to the RSO.

Personal
Protective
Equipment



Disposal: Segregate from <90 day T_{1/2} waste. Do not commingle with 'decay in storage' wastes.

1. Urine bioassay may be required after any accident/incident where intake is suspected.