^{237}Np

STAR — STRATEGY FOR ALLIED RADIOECOLOGY

Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	2.14×10^6 Years
Origin [1]	Neutron capture by ^{235}U and ^{238}U Decay of ^{237}U and ^{241}Am
Principal decay mode [1]	Alpha
Specific activity [2]	2.60×10^7 Bq/g
Freshwater Kd [3]	1×10^1 L kg^{-1}
Marine Kd [4]	1×10^3 L kg^{-1}

Parameters useful for human assessments	Value
CR Pasture grass [3]	6.1×10^{-2}
CR Freshwater fish	No data available
CR Marine fish [4]	1×10^0 L kg^{-1}
F_f Cow meat	No data available
F_m Cow milk	No data available
Human fractional absorption (f1) [5]	0.0005
Inhalation dose coefficient [6]	1.2×10^{-5} Sv Bq^{-1}
Ingestion dose coefficient [6]	1.1×10^{-7} Sv Bq^{-1}
Biological half life for Human (adult) [7]	Liver: 40 y (0.45), bone: 100 y (0.45) gonads (retained)
Biological half life for Cow milk [8]	No data available
EU Food intervention limit- Dairy [8]	1000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Baby food [8]	400 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Liquid [8]	1000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Other food [8]	1250 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Minor food [8]	12500 Bq L^{-1} or Bq kg^{-1}

^{237}Np Nuclear data

www.star-radioecology.org

STAR
STRATEGY FOR ALLIED RADIOECOLOGY

Commonly used or illustrative parameters

Parameters useful for wildlife assessments	Value
Terrestrial EMCL — Soil [9]	9.71×10^1 Bq kg^{-1}
Freshwater EMCL —Water [9]	1.16×10^{-2} Bq L^{-1}
Freshwater EMCL — Sediment [9]	7.94×10^{-4} Bq kg^{-1}
Marine EMCL — Water [9]	6.8×10^{-2} Bq L^{-1}
Marine EMCL — Sediment [9]	2.74×10^1 Bq kg^{-1}
CR Terrestrial mammal (rat) [9]	5.4×10^{-1}
CR Freshwater fish [9]	8.3×10^2
CR Freshwater mollusc 9]	1×10^4
CR Marine fish [9]	1.4×10^3
CR Marine mollusc [9]	3.8×10^2
Internal DCC Terrestrial mammal (rat) on soil [9]	2.75×10^{-2} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Terrestrial mammal (rat) in soil [9]	7.0×10^{-6} µGy h^{-1}/Bq kg^{-1} soil
External DCC Terrestrial mammal (rat) on soil [9]	3.5×10^{-6} µGy h^{-1}/Bq kg^{-1} soil
Internal DCC Marine fish (benthic) [9]	2.75×10^{-2} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Marine fish (benthic) in water [9]	1.3×10^{-5} µGy h^{-1}/Bq L^{-1} water
External DCC Marine fish (benthic) at sediment interface [9]	µGy h^{-1}/Bq kg^{-1} sediment
Internal DCC Freshwater fish (pelagic) [9]	2.75×10^{-2} µGy h-1/Bq kg-1 whole organism
External DCC Freshwater fish in water [9]	1.2×10^{-5} µGy h^{-1}/Bq L^{-1} water

All terms used in these tables are described and discussed in underlying documents accessed via the hyperlinks provided

www.star-radioecology.org