



Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	1.25×10^9 Years
Origin	Primordial
Principal decay mode [1]	β^+
Specific activity [1]	2.65×10^5 Bq/g
Freshwater Kd	No data available
Marine Kd	No data available

Parameters useful for human assessments	Value
CR Pasture grass [2]	7.3×10^{-1}
CR Freshwater fish [2]	4.0×10^3 L kg ⁻¹
CR Marine fish	No Data available
F _f Cow meat	No Data available
F _m Cow milk	No Data available
Human fractional absorption (f ₁) [3]	1.0
Inhalation dose coefficient [4]	2.1×10^{-9} Sv Bq ⁻¹
Ingestion dose coefficient [4]	6.2×10^{-9} Sv Bq ⁻¹
Biological half life for Human (adult) [5]	30 days (1.0)
Biological half life for Cow milk	No data available
EU Food intervention limit- Dairy [6]	1000 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Baby food [6]	400 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Liquid [6]	1000 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Other food [6]	1250 Bq L ⁻¹ or Bq kg ⁻¹
EU Food intervention limit- Minor food [6]	12500 Bq L ⁻¹ or Bq kg ⁻¹

⁴⁰K Nuclear data

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Parameters useful for wildlife assessments	Value
Terrestrial EMCL— Soil	No data available
Freshwater EMCL—Water	No data available
Freshwater EMCL— Sediment	No data available
Marine EMCL — Water	No data available
Marine EMCL — Sediment	No data available
CR Terrestrial mammal (rat)	No data available
CR Freshwater fish	No data available
CR Freshwater mollusc	No data available
CR Marine fish	No data available
CR Marine mollusc	No data available
Internal DCC Terrestrial mammal (rat) on soil [7]	$2.99 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Terrestrial mammal (rat) in soil [7]	$7.59 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
External DCC Terrestrial mammal (rat) on soil [7]	$2.97 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
Internal DCC Marine fish (benthic) [7]	$2.96 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Marine fish (benthic) in water [7]	$9.54 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water
External DCC Marine fish (benthic) at sediment interface [7]	$4.77 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ sediment
Internal DCC Freshwater fish (pelagic) [7]	$3.05 \times 10^{-4} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Freshwater fish in water [7]	$8.69 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water

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

Sources of data [reference list](#)
 Data compiled: January 2014
 Data updated : April 2015