

### Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	272 Days
Origin [2]	Charged particle reaction
Principal decay mode [1]	Electron capture
Specific activity [1]	$3.118 \times 10^{14}$ Bq/g
Freshwater Kd [3]	$4.4 \times 10^4$ L kg <sup>-1</sup>
Marine Kd [4]	$5 \times 10^7$ L kg <sup>-1</sup>

Parameters useful for human assessments	Value
CR Pasture grass [3]	$4.5 \times 10^{-2}$
CR Freshwater fish [3]	$4.0 \times 10^2$ L kg <sup>-1</sup>
CR Marine fish [4]	$7 \times 10^2$ L kg <sup>-1</sup>
F <sub>f</sub> Cow meat [3]	$4.3 \times 10^{-4}$ d kg <sup>-1</sup>
F <sub>m</sub> Cow milk [3]	$1.1 \times 10^{-4}$ d kg <sup>-1</sup>
Human fractional absorption (f1) [5]	0.1
Inhalation dose coefficient [6]	$1.9 \times 10^{-9}$ Sv Bq <sup>-1</sup>
Ingestion dose coefficient [6]	$2.1 \times 10^{-10}$ Sv Bq <sup>-1</sup>
Biological half life for Human (adult) [7]	a: 60 days (0.05), b: 800 days (0.45)
Biological half life for Cow milk	No data available
EU Food intervention limit- Dairy [8]	1000 Bq L <sup>-1</sup> or Bq kg <sup>-1</sup>
EU Food intervention limit- Baby food [8]	400 Bq L <sup>-1</sup> or Bq kg <sup>-1</sup>
EU Food intervention limit- Liquid [8]	1000 Bq L <sup>-1</sup> or Bq kg <sup>-1</sup>
EU Food intervention limit- Other food [8]	1250 Bq L <sup>-1</sup> or Bq kg <sup>-1</sup>
EU Food intervention limit- Minor food [8]	12500 Bq L <sup>-1</sup> or Bq kg <sup>-1</sup>

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Parameters useful for wildlife assessments	Value
Terrestrial EMCL— Soil [9]	$1.59 \times 10^5 \text{ Bq kg}^{-1}$
Freshwater EMCL—Water [9]	$3.3 \times 10^{-1} \text{ Bq L}^{-1}$
Freshwater EMCL— Sediment [9]	$1.22 \times 10^5 \text{ Bq kg}^{-1}$
Marine EMCL — Water [9]	$4.74 \times 10^{-2} \text{ Bq L}^{-1}$
Marine EMCL — Sediment [9]	$1.3 \times 10^5 \text{ Bq kg}^{-1}$
CR Terrestrial mammal (rat) [ 9]	$1.22 \times 10^{-5}$
CR Freshwater fish [9]	$2.3 \times 10^2$
CR Freshwater mollusc [9]	$1.1 \times 10^3$
CR Marine fish [9]	$5.3 \times 10^3$
CR Marine mollusc [9]	$5.3 \times 10^3$
Internal DCC Terrestrial mammal (rat) on soil [9]	$3.56 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Terrestrial mammal (rat) in soil [9]	$3.80 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
External DCC Terrestrial mammal (rat) on soil [9]	$1.9 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ soil
Internal DCC Marine fish (benthic) [9]	$3.52 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
External DCC Marine fish (benthic) in water [9]	$6.30 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water
External DCC Marine fish (benthic) at sediment interface [9]	$3.15 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq kg}^{-1}$ whole organism
Internal DCC Freshwater fish (pelagic) [9]	$3.82 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ water
External DCC Freshwater fish in water [9]	$6.00 \times 10^{-5} \mu\text{Gy h}^{-1}/\text{Bq L}^{-1}$ 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: September 2012

Data updated : May 2015

[www.radioecology-exchange.org](http://www.radioecology-exchange.org)