^{14}C

Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	5700 Years
Origin [1]	Natural, fission & activation
Principal decay mode [1]	Beta
Specific activity [1]	1.66×10^{11} Bq/g
Freshwater Kd [2]	5.0×10^{0} L kg^{-1}
Marine Kd (open ocean) [3]	2.0×10^{3} L kg^{-1}

Parameters useful for human assessments	Value
Carbon Content (pasture) [4]	1.0×10^{2} g kg^{-1} wet
Carbon Content (milk) [4]	6.5×10^{1} g kg^{-1} wet
Carbon content (beef) [4]	2.0×10^{2} g kg^{-1} wet
Carbon content (fish) [4]	1.2×10^{2} g kg^{-1} wet
Human fractional absorption (f1) [5]	1×10^{0}
Inhalation dose coefficient [6]	5.8×10^{-9} Sv Bq^{-1}
Ingestion dose coefficient [6]	5.8×10^{-10} Sv Bq^{-1}
Biological half life - Human (adult) [7]	40 days
Biological half life - ^{14}C-PCB in fish [8]	2.5 to 5 days
EU Food intervention limit - Dairy, liquid [9]	10 000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit - Baby food [9]	4 000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit - Other food [9]	12 500 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit - Minor food [9]	125 000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Other food [9]	EU105 Bq L^{-1} or Bq kg^{-1}

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Commonly used or illustrative parameters

Parameters useful for wildlife assessments	Value
Terrestrial EMCL— Soil [10]	8.4×10^1 Bq kg^{-1}
Freshwater EMCL—Water [10]	4.76×10^{-1} Bq L^{-1}
Freshwater EMCL— Sediment [10]	8.62×10^{-1} Bq kg^{-1}
Marine EMCL — Water [10]	1.16×10^1 Bq L^{-1}
Marine EMCL — Sediment [10]	3.27×10^3 Bq kg^{-1}
CR Terrestrial mammal (rat) [10]	1.3×10^3
CR Freshwater fish [10]	1.8×10^5
CR Freshwater mollusc [10]	1.8×10^5
CR Marine fish [10]	1.8×10^5
CR Marine mollusc [10]	1.8×10^5
Internal DCC Terrestrial mammal on soil [10]	2.96×10^{-5} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Terrestrial mammal (rat) in soil [10]	0 µGy h^{-1}/Bq kg^{-1} soil
External DCC Terrestrial mammal (rat) on soil [10]	0 µGy h^{-1}/Bq kg^{-1} soil
Internal DCC Marine fish (benthic) [10]	2.96×10^{-5} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Marine fish (benthic) in water [10]	1.80×10^{-8} µGy h^{-1}/Bq L^{-1} water
External DCC Marine fish (benthic) at sediment interface [10]	9.0×10^{-9} µGy h-1/Bq kg-1 sediment
Internal DCC Freshwater fish (pelagic) [10]	2.96×10^{-5} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Freshwater fish in water [10]	1.80×10^{-8} 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

Sources of data reference list
Data compiled: September 2012
Data updated : May 2015

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