

TABLE 3
Deterministic Exposure Factors – Indoor/Outdoor Worker^a

Parameter	Abbrev.	Value	Units	Reference
Dermal absorption fraction	ABS	---chemical-specific---		USEPA 2004c
Outdoor worker dermal adherence factor	AF _o	0.2	mg/cm ²	USEPA 2002a
Averaging time, carcinogenic	AT _c	70	years	USEPA 2002a
Averaging time, carcinogenic for inhalation exposures	AT _c	613200	hours	--
Averaging time, non-carcinogenic	AT _{nc}	25	years	Based on ED _{mw}
Averaging time, non-carcinogenic for inhalation exposures	AT _{nc}	219000	hours	--
Relative bioavailability	BIO	---chemical-specific---		
Adult body weight	BW	70	kg	USEPA 2002a
Dilution factor for outdoor to indoor air	DF	0.4	unitless	BRC 2009
Outdoor worker exposure frequency	EF _o	225	days/year	USEPA 2002a
Indoor worker exposure frequency	EF _i	250	days/year	USEPA 2002a
Exposure duration	ED _w	25	years	USEPA 2002a
Outdoor worker exposed surface area	SA _o	3,300	cm ² /day	USEPA 2002a
Outdoor worker soil ingestion rate	IR _o	100	mg/day	USEPA 2002a
Indoor worker soil ingestion rate	IR _i	50	mg/day	USEPA 2002a
Indoor worker exposure time, indoors	ET _i	8	hours/day	
Indoor worker exposure time, outdoors	ET _o	0	hours/day	
Outdoor worker exposure time, indoors	ET _i	0	hours/day	
Outdoor worker exposure time, outdoors	ET _o	8	hours/day	
Conversion factor	CF ₁	1000	ug/mg	
Conversion factor	CF ₂	1000	g/kg	
Conversion factor	CF ₃	1000000	cm ³ /m ³	
Conversion factor	CF ₄	1E-06	kg/mg	
Radionuclide-Specific Factors				
Conversion factor	CF ₂	1000	g/kg	
Conversion factor	CF ₅	0.001	g/mg	
Conversion factor	CF _{DY}	365	days/year	
Conversion factor	CF _{HD}	24	hours/day	
Inhalation rate, adult	InhR	0.833	m ³ /hour	USEPA 2002a
Indoor worker area correction factor	ACF _i	---site specific---		(1)
Outdoor worker area correction factor	ACF _o	---site specific---		(1)
Indoor worker gamma shielding factor	GSF	0.4	unitless	USEPA 2000a, 2009a
Outdoor worker gamma shielding factor	GSF	NA	unitless	USEPA 2000a, 2009a

^aExposure parameters for outdoor workers are based on outdoor and indoor worker exposure factors, respectively, from USEPA, 2002a.

(1) A value of 1.0 applies to sites of 1 ha size or larger. ACF values for smaller sites are available from Table 5-1 of the Technical Background Document of USEPA 2000a.