

**TABLE 3**  
**Deterministic Exposure Factors – Indoor/Outdoor Worker<sup>a</sup>**

Parameter	Abbrev.	Value	Units	Reference
Dermal absorption fraction	ABS	---chemical-specific---		USEPA 2004c
Outdoor worker dermal adherence factor	AF <sub>o</sub>	0.2	mg/cm <sup>2</sup>	USEPA 2002a
Averaging time, carcinogenic	AT <sub>c</sub>	70	years	USEPA 2002a
Averaging time, carcinogenic for inhalation exposures	AT <sub>c</sub>	613200	hours	--
Averaging time, non-carcinogenic	AT <sub>nc</sub>	25	years	Based on ED <sub>mw</sub>
Averaging time, non-carcinogenic for inhalation exposures	AT <sub>nc</sub>	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 <sub>o</sub>	225	days/year	USEPA 2002a
Indoor worker exposure frequency	EF <sub>i</sub>	250	days/year	USEPA 2002a
Exposure duration	ED <sub>w</sub>	25	years	USEPA 2002a
Outdoor worker exposed surface area	SA <sub>o</sub>	3,300	cm <sup>2</sup> /day	USEPA 2002a
Outdoor worker soil ingestion rate	IR <sub>o</sub>	100	mg/day	USEPA 2002a
Indoor worker soil ingestion rate	IR <sub>i</sub>	50	mg/day	USEPA 2002a
Indoor worker exposure time, indoors	ET <sub>i</sub>	8	hours/day	
Indoor worker exposure time, outdoors	ET <sub>o</sub>	0	hours/day	
Outdoor worker exposure time, indoors	ET <sub>i</sub>	0	hours/day	
Outdoor worker exposure time, outdoors	ET <sub>o</sub>	8	hours/day	
Conversion factor	CF <sub>1</sub>	1000	ug/mg	
Conversion factor	CF <sub>2</sub>	1000	g/kg	
Conversion factor	CF <sub>3</sub>	1000000	cm <sup>3</sup> /m <sup>3</sup>	
Conversion factor	CF <sub>4</sub>	1E-06	kg/mg	
<b>Radionuclide-Specific Factors</b>				
Conversion factor	CF <sub>2</sub>	1000	g/kg	
Conversion factor	CF <sub>5</sub>	0.001	g/mg	
Conversion factor	CF <sub>DY</sub>	365	days/year	
Conversion factor	CF <sub>HD</sub>	24	hours/day	
Inhalation rate, adult	InhR	0.833	m <sup>3</sup> /hour	USEPA 2002a
Indoor worker area correction factor	ACF <sub>i</sub>	---site specific---		(1)

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Parameter	Abbrev.	Value	Units	Reference
Outdoor worker area correction factor	ACF <sub>o</sub>	---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

<sup>a</sup>Exposure 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.