

Anhang 7.3: Dosiskoeffizienten

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
H-3	Inhalation		HTO	-	1,8E-11	1,8E-11	rotes Knochenm.
H-3	Inhalation		OBT	-	4,1E-11	4,1E-11	rotes Knochenm.
H-3	Inhalation		Gas	-	1,8E-15	1,8E-15	rotes Knochenm.
H-3	Inhalation		Methan	-	1,8E-13	1,8E-13	rotes Knochenm.
H-3	Ingestion		HTO	-	1,8E-11	1,8E-11	rotes Knochenm.
H-3	Ingestion		OBT	1	4,2E-11	4,2E-11	rotes Knochenm.
H-3	Wunde		HTO	-	1,8E-11	1,8E-11	rotes Knochenm.
H-3	Wunde		OBT	-	4,1E-11	4,1E-11	rotes Knochenm.
Be-7	Inhalation	M	0,3µm	0,005	5,3E-11	2,3E-10	Lunge
Be-7	Inhalation	M	1µm	0,005	4,8E-11	1,7E-10	Lunge
Be-7	Inhalation	M	5µm	0,005	4,3E-11	8,9E-11	Lunge
Be-7	Inhalation	M	10µm	0,005	3,2E-11	2,5E-11	Ovarien
Be-7	Inhalation	S	0,3µm	0,005	6,6E-11	3,3E-10	Lunge
Be-7	Inhalation	S	1µm	0,005	5,2E-11	2,4E-10	Lunge
Be-7	Inhalation	S	5µm	0,005	4,6E-11	1,2E-10	Lunge
Be-7	Inhalation	S	10µm	0,005	3,2E-11	2,3E-11	Ovarien
Be-7	Ingestion	-	-	0,005	2,8E-11	5,5E-11	Ovarien
Be-7	Wunde	-	-	-	1,3E-10	2,8E-10	rotes Knochenm.
C-11	Inhalation		org.	-	3,3E-12	3,5E-12	Ovarien
C-11	Inhalation		Monoxid	-	1,2E-12	1,3E-12	Ovarien
C-11	Inhalation		Dioxid	-	2,2E-12	2,4E-12	Uterus
C-11	Inhalation		Methan	-	2,7E-14	2,9E-14	Ovarien
C-11	Ingestion		org.	1	2,4E-11	1,8E-10	Magen
C-11	Wunde		org.	-	3,2E-12	3,5E-12	Ovarien
C-14	Inhalation		org.	-	5,8E-10	5,8E-10	rotes Knochenm.
C-14	Inhalation		Monoxid	-	8,0E-13	8,0E-13	rotes Knochenm.
C-14	Inhalation		Dioxid	-	6,5E-12	6,5E-12	rotes Knochenm.
C-14	Inhalation		Methan	-	2,9E-12	2,9E-12	rotes Knochenm.
C-14	Ingestion		org.	1	5,8E-10	5,8E-10	rotes Knochenm.
C-14	Wunde		org.	-	5,8E-10	5,7E-10	rotes Knochenm.
F-18	Inhalation	F	0,3µm	1	1,3E-11	2,0E-11	rotes Knochenm.
F-18	Inhalation	F	1µm	1	3,0E-11	2,8E-11	rotes Knochenm.
F-18	Inhalation	F	5µm	1	5,4E-11	3,8E-11	rotes Knochenm.
F-18	Inhalation	F	10µm	1	5,2E-11	3,4E-11	rotes Knochenm.
F-18	Inhalation	M	0,3µm	1	3,3E-11	1,9E-10	Lunge
F-18	Inhalation	M	1µm	1	5,7E-11	2,0E-10	Lunge
F-18	Inhalation	M	5µm	1	8,9E-11	2,1E-10	Lunge
F-18	Inhalation	M	10µm	1	7,9E-11	1,4E-10	Lunge
F-18	Inhalation	S	0,3µm	1	3,6E-11	2,1E-10	Lunge
F-18	Inhalation	S	1µm	1	6,0E-11	2,2E-10	Lunge
F-18	Inhalation	S	5µm	1	9,3E-11	2,3E-10	Lunge
F-18	Inhalation	S	10µm	1	8,2E-11	1,5E-10	Lunge
F-18	Ingestion	-	-	1	4,9E-11	2,9E-10	Magen
F-18	Wunde	-	-	-	1,5E-11	7,0E-11	rotes Knochenm.
Na-22	Inhalation	F	0,3µm	1	8,4E-10	1,1E-09	rotes Knochenm.

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Na-22	Inhalation	F	1µm	1	1,3E-09	1,6E-09	rotes Knochenm.
Na-22	Inhalation	F	5µm	1	2,0E-09	2,3E-09	rotes Knochenm.
Na-22	Inhalation	F	10µm	1	1,8E-09	2,0E-09	rotes Knochenm.
Na-22	Ingestion	-	-	1	3,2E-09	4,6E-09	rotes Knochenm.
Na-22	Wunde	-	-	-	3,1E-09	4,6E-09	rotes Knochenm.
Na-24	Inhalation	F	0,3µm	1	1,4E-10	1,0E-10	rotes Knochenm.
Na-24	Inhalation	F	1µm	1	2,9E-10	1,5E-10	rotes Knochenm.
Na-24	Inhalation	F	5µm	1	5,3E-10	2,2E-10	rotes Knochenm.
Na-24	Inhalation	F	10µm	1	5,2E-10	2,0E-10	rotes Knochenm.
Na-24	Ingestion	-	-	1	4,3E-10	1,2E-09	Magen
Na-24	Wunde	-	-	-	3,2E-10	4,0E-10	rotes Knochenm.
Mg-28	Inhalation	F	0,3µm	0,5	3,2E-10	4,3E-10	rotes Knochenm.
Mg-28	Inhalation	F	1µm	0,5	6,4E-10	1,9E-09	Dickdarm
Mg-28	Inhalation	F	5µm	0,5	1,1E-09	3,1E-09	Dickdarm
Mg-28	Inhalation	F	10µm	0,5	1,0E-09	2,9E-09	Dickdarm
Mg-28	Inhalation	M	0,3µm	0,5	8,0E-10	5,0E-09	Lunge
Mg-28	Inhalation	M	1µm	0,5	1,2E-09	4,4E-09	Lunge
Mg-28	Inhalation	M	5µm	0,5	1,7E-09	4,8E-09	Dickdarm
Mg-28	Inhalation	M	10µm	0,5	1,5E-09	4,6E-09	Dickdarm
Mg-28	Ingestion	-	-	0,5	2,2E-09	1,2E-08	Dickdarm
Mg-28	Wunde	-	-	-	9,0E-10	1,8E-09	rotes Knochenm.
P-32	Inhalation	F	0,3µm	0,8	5,6E-10	2,5E-09	rotes Knochenm.
P-32	Inhalation	F	1µm	0,8	8,0E-10	3,4E-09	rotes Knochenm.
P-32	Inhalation	F	5µm	0,8	1,1E-09	4,5E-09	rotes Knochenm.
P-32	Inhalation	F	10µm	0,8	9,9E-10	4,0E-09	rotes Knochenm.
P-32	Inhalation	M	0,3µm	0,8	3,2E-09	2,5E-08	Lunge
P-32	Inhalation	M	1µm	0,8	3,2E-09	2,2E-08	Lunge
P-32	Inhalation	M	5µm	0,8	2,9E-09	1,6E-08	Lunge
P-32	Inhalation	M	10µm	0,8	1,9E-09	3,4E-09	rotes Knochenm.
P-32	Ingestion	-	-	0,8	2,4E-09	8,2E-09	rotes Knochenm.
P-32	Wunde	-	-	-	2,3E-09	1,0E-08	rotes Knochenm.
P-33	Inhalation	F	0,3µm	0,8	5,6E-11	1,5E-10	rotes Knochenm.
P-33	Inhalation	F	1µm	0,8	9,6E-11	2,1E-10	rotes Knochenm.
P-33	Inhalation	F	5µm	0,8	1,4E-10	2,8E-10	rotes Knochenm.
P-33	Inhalation	F	10µm	0,8	1,3E-10	2,5E-10	rotes Knochenm.
P-33	Inhalation	M	0,3µm	0,8	1,4E-09	1,1E-08	Lunge
P-33	Inhalation	M	1µm	0,8	1,4E-09	1,1E-08	Lunge
P-33	Inhalation	M	5µm	0,8	1,3E-09	9,6E-09	Lunge
P-33	Inhalation	M	10µm	0,8	7,0E-10	5,0E-09	Lunge
P-33	Ingestion	-	-	0,8	2,4E-10	5,1E-10	rotes Knochenm.
P-33	Wunde	-	-	0,8	2,2E-10	6,2E-10	rotes Knochenm.
S-35	Inhalation	F	0,3µm	0,8	3,4E-11	2,3E-11	Uterus
S-35	Inhalation	F	1µm	0,8	5,4E-11	1,1E-10	Dickdarm
S-35	Inhalation	F	5µm	0,8	8,0E-11	1,7E-10	Dickdarm
S-35	Inhalation	F	10µm	0,8	7,3E-11	1,5E-10	Dickdarm
S-35	Inhalation	M	0,3µm	0,8	1,5E-09	1,2E-08	Lunge
S-35	Inhalation	M	1µm	0,8	1,3E-09	1,1E-08	Lunge
S-35	Inhalation	M	5µm	0,8	1,1E-09	8,6E-09	Lunge
S-35	Inhalation	M	10µm	0,8	6,0E-10	4,5E-09	Lunge
S-35	Inhalation	F	CS2	0,8	3,4E-11	2,3E-11	Uterus
S-35	Inhalation	F	SO2	0,8	5,4E-11	1,1E-10	Dickdarm
S-35	Inhalation	V	Dampf	-	1,2E-10	9,7E-11	rotes Knochenm.

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S-35	Ingestion	-	org.	1	7,7E-10	7,5E-10	rotes Knochenm.
S-35	Ingestion	-	anorg.	0,8	1,4E-10	5,0E-10	Dickdarm
S-35	Ingestion	-	anorg.	0,1	1,9E-10	1,4E-09	Dickdarm
S-35	Wunde	-	org.	-	-	-	-
S-35	Wunde	-	anorg.	-	1,2E-10	9,7E-11	rotes Knochenm.
Cl-36	Inhalation	F	0,3µm	1	2,3E-10	2,0E-10	Uterus
Cl-36	Inhalation	F	1µm	1	3,4E-10	2,8E-10	Uterus
Cl-36	Inhalation	F	5µm	1	4,9E-10	3,9E-10	Uterus
Cl-36	Inhalation	F	10µm	1	4,4E-10	3,4E-10	Hoden
Cl-36	Inhalation	M	0,3µm	1	7,7E-09	6,2E-08	Lunge
Cl-36	Inhalation	M	1µm	1	6,9E-09	5,5E-08	Lunge
Cl-36	Inhalation	M	5µm	1	5,1E-09	3,9E-08	Lunge
Cl-36	Inhalation	M	10µm	1	2,7E-09	1,9E-08	Lunge
Cl-36	Ingestion	-	-	1	9,3E-10	8,0E-10	Uterus
Cl-36	Wunde	-	-	-	8,9E-10	8,1E-10	Uterus
K-42	Inhalation	F	0,3µm	1	7,5E-11	5,4E-11	Hoden
K-42	Inhalation	F	1µm	1	1,3E-10	2,4E-10	Magen
K-42	Inhalation	F	5µm	1	2,0E-10	4,2E-10	Magen
K-42	Inhalation	F	10µm	1	1,9E-10	3,9E-10	Magen
K-42	Ingestion	-	-	1	4,3E-10	1,8E-09	Magen
K-42	Wunde	-	-	-	2,4E-10	2,3E-10	Uterus
Ca-45	Inhalation	M	0,3µm	0,3	2,7E-09	2,0E-08	Lunge
Ca-45	Inhalation	M	1µm	0,3	2,7E-09	2,0E-08	Lunge
Ca-45	Inhalation	M	5µm	0,3	2,3E-09	1,6E-08	Lunge
Ca-45	Inhalation	M	10µm	0,3	1,3E-09	8,3E-09	Lunge
Ca-45	Ingestion	-	-	0,3	7,6E-10	3,5E-09	rotes Knochenm.
Ca-45	Wunde	-	-	0,3	1,8E-09	1,2E-08	rotes Knochenm.
Ca-47	Inhalation	M	0,3µm	0,3	1,6E-09	1,1E-08	Lunge
Ca-47	Inhalation	M	1µm	0,3	1,8E-09	1,2E-08	Lunge
Ca-47	Inhalation	M	5µm	0,3	2,1E-09	9,6E-09	Lunge
Ca-47	Inhalation	M	10µm	0,3	1,5E-09	5,0E-09	Lunge
Ca-47	Ingestion	-	-	0,3	1,6E-09	8,7E-09	Dickdarm
Ca-47	Wunde	-	-	-	-	-	-
Sc-46	Inhalation	S	0,3µm	0,0001	7,1E-09	4,7E-08	Lunge
Sc-46	Inhalation	S	1µm	0,0001	6,4E-09	4,2E-08	Lunge
Sc-46	Inhalation	S	5µm	0,0001	4,8E-09	3,0E-08	Lunge
Sc-46	Inhalation	S	10µm	0,0001	3,2E-09	1,5E-08	Lunge
Sc-46	Ingestion	-	-	0,0001	1,5E-09	7,1E-09	Dickdarm
Sc-46	Wunde	-	-	-	2,4E-08	2,2E-07	Milz
Cr-51	Inhalation	F	0,3µm	0,1	1,4E-11	1,4E-11	Ovarien
Cr-51	Inhalation	F	1µm	0,1	2,1E-11	1,8E-11	Ovarien
Cr-51	Inhalation	F	5µm	0,1	3,0E-11	7,4E-11	Dickdarm
Cr-51	Inhalation	F	10µm	0,1	2,7E-11	6,7E-11	Dickdarm
Cr-51	Inhalation	M	0,3µm	0,1	3,4E-11	1,8E-10	Lunge
Cr-51	Inhalation	M	1µm	0,1	3,1E-11	1,3E-10	Lunge
Cr-51	Inhalation	M	5µm	0,1	3,4E-11	8,8E-11	Dickdarm
Cr-51	Inhalation	M	10µm	0,1	2,7E-11	8,1E-11	Dickdarm
Cr-51	Inhalation	S	0,3µm	0,1	4,0E-11	2,3E-10	Lunge
Cr-51	Inhalation	S	1µm	0,1	3,6E-11	1,7E-10	Lunge
Cr-51	Inhalation	S	5µm	0,1	3,6E-11	8,9E-11	Dickdarm
Cr-51	Inhalation	S	10µm	0,1	2,8E-11	8,3E-11	Dickdarm

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Cr-51	Ingestion	-	-	0,1	3,8E-11	2,0E-10	Dickdarm
Cr-51	Ingestion	-	-	0,01	3,7E-11	2,1E-10	Dickdarm
Cr-51	Wunde	-	-	-	5,6E-11	5,9E-11	Ovarien
Mn-54	Inhalation	F	0,3µm	0,1	6,6E-10	1,0E-09	rotes Knochenm.
Mn-54	Inhalation	F	1µm	0,1	8,7E-10	1,2E-09	rotes Knochenm.
Mn-54	Inhalation	F	5µm	0,1	1,1E-09	1,4E-09	rotes Knochenm.
Mn-54	Inhalation	F	10µm	0,1	1,0E-09	1,2E-09	rotes Knochenm.
Mn-54	Inhalation	M	0,3µm	0,1	1,8E-09	8,1E-09	Lunge
Mn-54	Inhalation	M	1µm	0,1	1,5E-09	5,9E-09	Lunge
Mn-54	Inhalation	M	5µm	0,1	1,2E-09	3,1E-09	Lunge
Mn-54	Inhalation	M	10µm	0,1	8,0E-10	5,4E-10	rotes Knochenm.
Mn-54	Ingestion	-	-	0,1	7,1E-10	1,1E-09	Ovarien
Mn-54	Wunde	-	-	-	3,1E-09	4,8E-09	rotes Knochenm.
Fe-55	Inhalation	F	0,3µm	0,1	6,7E-10	2,4E-09	rotes Knochenm.
Fe-55	Inhalation	F	1µm	0,1	7,7E-10	2,8E-09	rotes Knochenm.
Fe-55	Inhalation	F	5µm	0,1	9,2E-10	3,3E-09	rotes Knochenm.
Fe-55	Inhalation	F	10µm	0,1	7,8E-10	2,8E-09	rotes Knochenm.
Fe-55	Inhalation	M	0,3µm	0,1	4,0E-10	1,3E-09	rotes Knochenm.
Fe-55	Inhalation	M	1µm	0,1	3,7E-10	1,2E-09	rotes Knochenm.
Fe-55	Inhalation	M	5µm	0,1	3,3E-10	1,1E-09	rotes Knochenm.
Fe-55	Inhalation	M	10µm	0,1	2,5E-10	8,4E-10	rotes Knochenm.
Fe-55	Ingestion	-	-	0,1	3,3E-10	1,1E-09	rotes Knochenm.
Fe-55	Wunde	-	-	-	3,1E-09	1,1E-08	rotes Knochenm.
Fe-59	Inhalation	F	0,3µm	0,1	1,9E-09	3,0E-09	rotes Knochenm.
Fe-59	Inhalation	F	1µm	0,1	2,2E-09	3,4E-09	rotes Knochenm.
Fe-59	Inhalation	F	5µm	0,1	3,0E-09	4,2E-09	rotes Knochenm.
Fe-59	Inhalation	F	10µm	0,1	2,6E-09	3,5E-09	rotes Knochenm.
Fe-59	Inhalation	M	0,3µm	0,1	3,5E-09	2,2E-08	Lunge
Fe-59	Inhalation	M	1µm	0,1	3,5E-09	2,1E-08	Lunge
Fe-59	Inhalation	M	5µm	0,1	3,2E-09	1,7E-08	Lunge
Fe-59	Inhalation	M	10µm	0,1	2,3E-09	8,9E-09	Lunge
Fe-59	Ingestion	-	-	0,1	1,8E-09	5,8E-09	Dickdarm
Fe-59	Wunde	-	-	-	8,4E-09	1,4E-08	rotes Knochenm.
Co-57	Inhalation	M	0,3µm	0,1	5,9E-10	3,6E-09	Lunge
Co-57	Inhalation	M	1µm	0,1	5,2E-10	3,1E-09	Lunge
Co-57	Inhalation	M	5µm	0,1	3,9E-10	2,0E-09	Lunge
Co-57	Inhalation	M	10µm	0,1	2,7E-10	1,0E-09	Lunge
Co-57	Inhalation	S	0,3µm	0,05	1,2E-09	7,7E-09	Lunge
Co-57	Inhalation	S	1µm	0,05	9,4E-10	6,1E-09	Lunge
Co-57	Inhalation	S	5µm	0,05	6,0E-10	3,7E-09	Lunge
Co-57	Inhalation	S	10µm	0,05	3,7E-10	1,8E-09	Lunge
Co-57	Ingestion	-	-	0,1	2,1E-10	9,4E-10	Dickdarm
Co-57	Ingestion	-	-	0,05	1,9E-10	9,5E-10	Dickdarm
Co-57	Wunde	-	-	-	6,4E-10	6,4E-10	Uterus
Co-58	Inhalation	M	0,3µm	0,1	1,7E-09	9,7E-09	Lunge
Co-58	Inhalation	M	1µm	0,1	1,5E-09	8,4E-09	Lunge
Co-58	Inhalation	M	5µm	0,1	1,4E-09	5,8E-09	Lunge
Co-58	Inhalation	M	10µm	0,1	9,5E-10	2,9E-09	Lunge
Co-58	Inhalation	S	0,3µm	0,05	2,3E-09	1,4E-08	Lunge
Co-58	Inhalation	S	1µm	0,05	2,0E-09	1,2E-08	Lunge
Co-58	Inhalation	S	5µm	0,05	1,7E-09	7,8E-09	Lunge
Co-58	Inhalation	S	10µm	0,05	1,1E-09	3,9E-09	Lunge

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Co-58	Ingestion	-	-	0,1	7,4E-10	1,1E-09	Ovarien
Co-58	Ingestion	-	-	0,05	7,0E-10	1,1E-09	Ovarien
Co-58	Wunde	-	-	-	1,5E-09	1,6E-09	Ovarien
Co-60	Inhalation	M	0,3µm	0,1	1,1E-08	5,8E-08	Lunge
Co-60	Inhalation	M	1µm	0,1	9,6E-09	4,9E-08	Lunge
Co-60	Inhalation	M	5µm	0,1	7,1E-09	3,4E-08	Lunge
Co-60	Inhalation	M	10µm	0,1	5,0E-09	1,7E-08	Lunge
Co-60	Inhalation	S	0,3µm	0,05	3,8E-08	2,2E-07	Lunge
Co-60	Inhalation	S	1µm	0,05	2,9E-08	1,7E-07	Lunge
Co-60	Inhalation	S	5µm	0,05	1,7E-08	9,6E-08	Lunge
Co-60	Inhalation	S	10µm	0,05	9,9E-09	4,5E-08	Lunge
Co-60	Ingestion	-	-	0,1	3,4E-09	4,3E-09	Ovarien
Co-60	Ingestion	-	-	0,05	2,5E-09	3,4E-09	Ovarien
Co-60	Wunde	-	-	-	2,0E-08	2,1E-08	Uterus
Ni-59	Inhalation	F	0,3µm	0,05	1,6E-10	1,6E-10	Hoden
Ni-59	Inhalation	F	1µm	0,05	1,8E-10	1,8E-10	Uterus
Ni-59	Inhalation	F	5µm	0,05	2,2E-10	2,1E-10	Uterus
Ni-59	Inhalation	F	10µm	0,05	1,8E-10	1,8E-10	Uterus
Ni-59	Inhalation	M	0,3µm	0,05	1,5E-10	6,0E-10	Lunge
Ni-59	Inhalation	M	1µm	0,05	1,3E-10	4,4E-10	Lunge
Ni-59	Inhalation	M	5µm	0,05	9,4E-11	2,4E-10	Lunge
Ni-59	Inhalation	M	10µm	0,05	6,2E-11	4,2E-11	Hoden
Ni-59	Inhalation	-	Carbonyl	-	8,3E-10	7,3E-10	HODEN
Ni-59	Ingestion	-	-	0,05	6,3E-11	2,5E-10	Dickdarm
Ni-59	Wunde	-	-	-	7,3E-10	7,3E-10	HODEN
Ni-63	Inhalation	F	0,3µm	0,05	3,8E-10	3,8E-10	Uterus
Ni-63	Inhalation	F	1µm	0,05	4,4E-10	4,3E-10	Uterus
Ni-63	Inhalation	F	5µm	0,05	5,2E-10	5,1E-10	Uterus
Ni-63	Inhalation	F	10µm	0,05	4,4E-10	4,2E-10	Uterus
Ni-63	Inhalation	M	0,3µm	0,05	5,9E-10	3,3E-09	Lunge
Ni-63	Inhalation	M	1µm	0,05	4,4E-10	2,2E-09	Lunge
Ni-63	Inhalation	M	5µm	0,05	3,1E-10	1,3E-09	Lunge
Ni-63	Inhalation	M	10µm	0,05	2,1E-10	6,7E-10	Lunge
Ni-63	Inhalation	-	Carbonyl	-	2,0E-09	1,7E-09	Uterus
Ni-63	Ingestion	-	-	0,05	1,5E-10	6,1E-10	Dickdarm
Ni-63	Wunde	-	-	-	1,7E-09	1,7E-09	Uterus
Cu-64	Inhalation	F	0,3µm	0,5	1,6E-11	2,7E-11	Dickdarm
Cu-64	Inhalation	F	1µm	0,5	3,8E-11	7,9E-11	Dickdarm
Cu-64	Inhalation	F	5µm	0,5	6,8E-11	1,4E-10	Dickdarm
Cu-64	Inhalation	F	10µm	0,5	6,5E-11	1,4E-10	Dickdarm
Cu-64	Inhalation	M	0,3µm	0,5	7,2E-11	5,2E-10	Lunge
Cu-64	Inhalation	M	1µm	0,5	1,1E-10	5,3E-10	Lunge
Cu-64	Inhalation	M	5µm	0,5	1,5E-10	4,9E-10	Lunge
Cu-64	Inhalation	M	10µm	0,5	1,2E-10	2,8E-10	Lunge
Cu-64	Inhalation	S	0,3µm	0,5	7,9E-11	5,8E-10	Lunge
Cu-64	Inhalation	S	1µm	0,5	1,2E-10	5,9E-10	Lunge
Cu-64	Inhalation	S	5µm	0,5	1,5E-10	5,5E-10	Lunge
Cu-64	Inhalation	S	10µm	0,5	1,2E-10	3,1E-10	Lunge
Cu-64	Ingestion	-	-	0,5	1,2E-10	6,8E-10	Dickdarm
Cu-64	Wunde	-	-	-	3,2E-11	8,9E-11	GEHIRN
Zn-65	Inhalation	S	0,3µm	0,5	3,0E-09	1,4E-08	Lunge
Zn-65	Inhalation	S	1µm	0,5	2,9E-09	1,0E-08	Lunge

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Zn-65	Inhalation	S	5µm	0,5	2,8E-09	2,6E-09	rotes Knochenm.
Zn-65	Inhalation	S	10µm	0,5	2,2E-09	2,2E-09	rotes Knochenm.
Zn-65	Ingestion	-	-	0,5	3,9E-09	4,8E-09	rotes Knochenm.
Zn-65	Wunde	-	-	-	7,5E-09	9,4E-09	rotes Knochenm.
Ga-67	Inhalation	F	0,3µm	0,001	3,2E-11	2,6E-10	Knochenoberfl.
Ga-67	Inhalation	F	1µm	0,001	6,8E-11	1,8E-10	Dickdarm
Ga-67	Inhalation	F	5µm	0,001	1,1E-10	3,0E-10	Dickdarm
Ga-67	Inhalation	F	10µm	0,001	1,0E-10	2,8E-10	Dickdarm
Ga-67	Inhalation	M	0,3µm	0,001	2,0E-10	1,5E-09	Lunge
Ga-67	Inhalation	M	1µm	0,001	2,3E-10	1,5E-09	Lunge
Ga-67	Inhalation	M	5µm	0,001	2,8E-10	1,3E-09	Lunge
Ga-67	Inhalation	M	10µm	0,001	2,0E-10	6,9E-10	Lunge
Ga-67	Ingestion	-	-	0,001	1,9E-10	1,2E-09	Dickdarm
Ga-67	Wunde	-	-	-	1,2E-10	1,2E-09	Knochenoberfl.
Se-75	Inhalation	F	0,3µm	0,8	7,6E-10	4,1E-09	Nieren
Se-75	Inhalation	F	1µm	0,8	1,0E-09	5,5E-09	Nieren
Se-75	Inhalation	F	5µm	0,8	1,4E-09	7,5E-09	Nieren
Se-75	Inhalation	F	10µm	0,8	1,2E-09	6,6E-09	Nieren
Se-75	Inhalation	M	0,3µm	0,8	1,3E-09	6,0E-09	Lunge
Se-75	Inhalation	M	1µm	0,8	1,4E-09	5,3E-09	Lunge
Se-75	Inhalation	M	5µm	0,8	1,7E-09	6,5E-09	Nieren
Se-75	Inhalation	M	10µm	0,8	1,3E-09	5,8E-09	Nieren
Se-75	Ingestion	-	-	0,8	2,6E-09	1,4E-08	Nieren
Se-75	Ingestion	-	-	0,05	4,1E-10	5,5E-10	Ovarien
Se-75	Wunde	-	-	-	3,2E-09	1,7E-08	Nieren
Sr-85	Inhalation	F	0,3µm	0,3	2,7E-10	6,1E-10	rotes Knochenm.
Sr-85	Inhalation	F	1µm	0,3	3,9E-10	7,5E-10	rotes Knochenm.
Sr-85	Inhalation	F	5µm	0,3	5,6E-10	9,4E-10	rotes Knochenm.
Sr-85	Inhalation	F	10µm	0,3	5,0E-10	8,1E-10	rotes Knochenm.
Sr-85	Inhalation	S	0,3µm	0,01	9,8E-10	5,5E-09	Lunge
Sr-85	Inhalation	S	1µm	0,01	7,7E-10	4,0E-09	Lunge
Sr-85	Inhalation	S	5µm	0,01	6,4E-10	2,1E-09	Lunge
Sr-85	Inhalation	S	10µm	0,01	4,4E-10	9,8E-10	Lunge
Sr-85	Ingestion	-	-	0,3	5,6E-10	8,8E-10	rotes Knochenm.
Sr-85	Ingestion	-	-	0,01	3,3E-10	5,7E-10	Ovarien
Sr-85	Wunde	-	-	-	1,1E-09	2,7E-09	rotes Knochenm.
Sr-89	Inhalation	F	0,3µm	0,3	7,5E-10	3,6E-09	rotes Knochenm.
Sr-89	Inhalation	F	1µm	0,3	1,0E-09	4,3E-09	rotes Knochenm.
Sr-89	Inhalation	F	5µm	0,3	1,4E-09	5,4E-09	rotes Knochenm.
Sr-89	Inhalation	F	10µm	0,3	1,2E-09	4,6E-09	rotes Knochenm.
Sr-89	Inhalation	S	0,3µm	0,01	8,4E-09	6,8E-08	Lunge
Sr-89	Inhalation	S	1µm	0,01	7,5E-09	5,8E-08	Lunge
Sr-89	Inhalation	S	5µm	0,01	5,6E-09	3,8E-08	Lunge
Sr-89	Inhalation	S	10µm	0,01	3,2E-09	1,9E-08	Lunge
Sr-89	Ingestion	-	-	0,3	2,6E-09	4,8E-09	rotes Knochenm.
Sr-89	Ingestion	-	-	0,01	2,3E-09	1,8E-08	Dickdarm
Sr-89	Wunde	-	-	-	3,1E-09	1,6E-08	rotes Knochenm.
Sr-90	Inhalation	F	0,3µm	0,3	2,0E-08	1,3E-07	rotes Knochenm.
Sr-90	Inhalation	F	1µm	0,3	2,4E-08	1,6E-07	rotes Knochenm.
Sr-90	Inhalation	F	5µm	0,3	3,0E-08	2,0E-07	rotes Knochenm.
Sr-90	Inhalation	F	10µm	0,3	2,6E-08	1,7E-07	rotes Knochenm.
Sr-90	Inhalation	S	0,3µm	0,01	2,0E-07	1,6E-06	Lunge

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Sr-90	Inhalation	S	1µm	0,01	1,5E-07	1,2E-06	Lunge
Sr-90	Inhalation	S	5µm	0,01	7,7E-08	6,3E-07	Lunge
Sr-90	Inhalation	S	10µm	0,01	3,6E-08	2,8E-07	Lunge
Sr-90	Ingestion	-	-	0,3	2,8E-08	1,8E-07	rotes Knochenm.
Sr-90	Ingestion	-	-	0,01	2,7E-09	6,0E-09	rotes Knochenm.
Sr-90	Wunde	-	-	-	8,8E-08	6,0E-07	rotes Knochenm.
Y-88	Inhalation	M	0,3µm	0,0001	4,8E-09	1,7E-08	Lunge
Y-88	Inhalation	M	1µm	0,0001	3,9E-09	4,1E-09	rotes Knochenm.
Y-88	Inhalation	M	5µm	0,0001	3,3E-09	3,0E-09	rotes Knochenm.
Y-88	Inhalation	M	10µm	0,0001	2,3E-09	2,0E-09	rotes Knochenm.
Y-88	Inhalation	S	0,3µm	0,0001	5,4E-09	2,7E-08	Lunge
Y-88	Inhalation	S	1µm	0,0001	4,1E-09	2,0E-08	Lunge
Y-88	Inhalation	S	5µm	0,0001	3,0E-09	1,0E-08	Lunge
Y-88	Inhalation	S	10µm	0,0001	2,0E-09	4,6E-09	Lunge
Y-88	Ingestion	-	-	0,0001	1,3E-09	2,5E-09	Ovarien
Y-88	Wunde	-	-	-	2,5E-08	4,9E-08	rotes Knochenm.
Y-90	Inhalation	M	0,3µm	0,0001	1,1E-09	7,5E-09	Lunge
Y-90	Inhalation	M	1µm	0,0001	1,4E-09	6,5E-09	Lunge
Y-90	Inhalation	M	5µm	0,0001	1,6E-09	8,5E-09	Dickdarm
Y-90	Inhalation	M	10µm	0,0001	1,3E-09	8,1E-09	Dickdarm
Y-90	Inhalation	S	0,3µm	0,0001	1,2E-09	8,4E-09	Lunge
Y-90	Inhalation	S	1µm	0,0001	1,5E-09	7,3E-09	Lunge
Y-90	Inhalation	S	5µm	0,0001	1,7E-09	8,9E-09	Dickdarm
Y-90	Inhalation	S	10µm	0,0001	1,4E-09	8,4E-09	Dickdarm
Y-90	Ingestion	-	-	0,0001	2,7E-09	2,1E-08	Dickdarm
Y-90	Wunde	-	-	-	1,2E-09	3,9E-09	rotes Knochenm.
Zr-95	Inhalation	F	0,3µm	0,002	2,2E-09	4,7E-08	Knochenoberfl.
Zr-95	Inhalation	F	1µm	0,002	2,5E-09	5,3E-08	Knochenoberfl.
Zr-95	Inhalation	F	5µm	0,002	3,0E-09	6,2E-08	Knochenoberfl.
Zr-95	Inhalation	F	10µm	0,002	2,5E-09	5,1E-08	Knochenoberfl.
Zr-95	Inhalation	M	0,3µm	0,002	4,8E-09	3,1E-08	Lunge
Zr-95	Inhalation	M	1µm	0,002	4,5E-09	2,9E-08	Lunge
Zr-95	Inhalation	M	5µm	0,002	3,6E-09	2,2E-08	Lunge
Zr-95	Inhalation	M	10µm	0,002	2,4E-09	1,1E-08	Lunge
Zr-95	Inhalation	S	0,3µm	0,002	6,0E-09	4,3E-08	Lunge
Zr-95	Inhalation	S	1µm	0,002	5,5E-09	3,9E-08	Lunge
Zr-95	Inhalation	S	5µm	0,002	4,2E-09	2,9E-08	Lunge
Zr-95	Inhalation	S	10µm	0,002	2,3E-09	1,5E-08	Lunge
Zr-95	Ingestion	-	-	0,002	8,8E-10	5,1E-09	Dickdarm
Zr-95	Wunde	-	-	-	1,0E-08	2,2E-07	Knochenoberfl.
Nb-94	Inhalation	M	0,3µm	0,01	1,2E-08	6,5E-08	Lunge
Nb-94	Inhalation	M	1µm	0,01	1,0E-08	5,6E-08	Lunge
Nb-94	Inhalation	M	5µm	0,01	7,2E-09	3,9E-08	Lunge
Nb-94	Inhalation	M	10µm	0,01	4,6E-09	2,0E-08	Lunge
Nb-94	Inhalation	S	0,3µm	0,01	6,0E-08	4,0E-07	Lunge
Nb-94	Inhalation	S	1µm	0,01	4,5E-08	3,0E-07	Lunge
Nb-94	Inhalation	S	5µm	0,01	2,5E-08	1,6E-07	Lunge
Nb-94	Inhalation	S	10µm	0,01	1,5E-08	7,6E-08	Lunge
Nb-94	Ingestion	-	-	0,01	1,7E-09	8,4E-09	Dickdarm
Nb-94	Wunde	-	-	-	2,4E-08	1,0E-07	Leber
Nb-95	Inhalation	M	0,3µm	0,01	1,6E-09	1,0E-08	Lunge
Nb-95	Inhalation	M	1µm	0,01	1,4E-09	8,8E-09	Lunge

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Nb-95	Inhalation	M	5µm	0,01	1,3E-09	6,5E-09	Lunge
Nb-95	Inhalation	M	10µm	0,01	9,0E-10	3,3E-09	Lunge
Nb-95	Inhalation	S	0,3µm	0,01	1,9E-09	1,3E-08	Lunge
Nb-95	Inhalation	S	1µm	0,01	1,6E-09	1,1E-08	Lunge
Nb-95	Inhalation	S	5µm	0,01	1,3E-09	8,1E-09	Lunge
Nb-95	Inhalation	S	10µm	0,01	9,7E-10	4,1E-09	Lunge
Nb-95	Ingestion	-	-	0,01	5,8E-10	2,8E-09	Dickdarm
Nb-95	Wunde	-	-	-	2,2E-09	3,8E-09	rotes Knochenm.
Mo-99	Inhalation	F	0,3µm	0,8	1,4E-10	7,5E-10	Nieren
Mo-99	Inhalation	F	1µm	0,8	2,3E-10	1,0E-09	Nieren
Mo-99	Inhalation	F	5µm	0,8	3,6E-10	1,4E-09	Nieren
Mo-99	Inhalation	F	10µm	0,8	3,3E-10	1,2E-09	Nieren
Mo-99	Inhalation	S	0,3µm	0,05	7,9E-10	5,7E-09	Lunge
Mo-99	Inhalation	S	1µm	0,05	9,7E-10	5,6E-09	Lunge
Mo-99	Inhalation	S	5µm	0,05	1,1E-09	4,6E-09	Lunge
Mo-99	Inhalation	S	10µm	0,05	8,8E-10	3,7E-09	Dickdarm
Mo-99	Ingestion	-	-	0,8	7,4E-10	2,5E-09	Nieren
Mo-99	Ingestion	-	-	0,05	1,2E-09	9,2E-09	Dickdarm
Mo-99	Wunde	-	-	-	5,5E-10	3,2E-09	Nieren
Tc-99m	Inhalation	F	0,3µm	0,8	6,5E-12	3,0E-11	Schilddrüse
Tc-99m	Inhalation	F	1µm	0,8	1,2E-11	2,2E-11	Magen
Tc-99m	Inhalation	F	5µm	0,8	2,0E-11	3,1E-11	Magen
Tc-99m	Inhalation	F	10µm	0,8	1,9E-11	2,8E-11	Magen
Tc-99m	Inhalation	M	0,3µm	0,8	1,2E-11	7,0E-11	Lunge
Tc-99m	Inhalation	M	1µm	0,8	1,9E-11	7,2E-11	Lunge
Tc-99m	Inhalation	M	5µm	0,8	2,9E-11	7,1E-11	Lunge
Tc-99m	Inhalation	M	10µm	0,8	2,5E-11	4,3E-11	Lunge
Tc-99m	Ingestion	-	-	0,8	2,2E-11	7,2E-11	Magen
Tc-99m	Wunde	-	-	-	1,9E-11	1,3E-10	Schilddrüse
Tc-99	Inhalation	F	0,3µm	0,8	2,1E-10	9,8E-10	Magen
Tc-99	Inhalation	F	1µm	0,8	2,9E-10	1,3E-09	Magen
Tc-99	Inhalation	F	5µm	0,8	4,0E-10	1,8E-09	Magen
Tc-99	Inhalation	F	10µm	0,8	4,0E-10	1,6E-09	Magen
Tc-99	Inhalation	M	0,3µm	0,8	4,0E-09	3,1E-08	Lunge
Tc-99	Inhalation	M	1µm	0,8	3,9E-09	3,0E-08	Lunge
Tc-99	Inhalation	M	5µm	0,8	3,2E-09	2,4E-08	Lunge
Tc-99	Inhalation	M	10µm	0,8	1,8E-09	1,2E-08	Lunge
Tc-99	Ingestion	-	-	0,8	7,8E-10	3,4E-09	Magen
Tc-99	Wunde	-	-	-	8,6E-10	4,1E-09	Magen
Ru-103	Inhalation	F	0,3µm	0,05	3,5E-10	3,5E-10	Ovarien
Ru-103	Inhalation	F	1µm	0,05	4,9E-10	4,3E-10	Ovarien
Ru-103	Inhalation	F	5µm	0,05	6,8E-10	5,5E-10	Ovarien
Ru-103	Inhalation	F	10µm	0,05	6,1E-10	4,7E-10	Ovarien
Ru-103	Inhalation	M	0,3µm	0,05	2,6E-09	1,9E-08	Lunge
Ru-103	Inhalation	M	1µm	0,05	2,3E-09	1,6E-08	Lunge
Ru-103	Inhalation	M	5µm	0,05	1,9E-09	1,2E-08	Lunge
Ru-103	Inhalation	M	10µm	0,05	1,3E-09	6,3E-09	Lunge
Ru-103	Inhalation	S	0,3µm	0,05	3,2E-09	2,4E-08	Lunge
Ru-103	Inhalation	S	1µm	0,05	2,8E-09	2,0E-08	Lunge
Ru-103	Inhalation	S	5µm	0,05	2,2E-09	1,5E-08	Lunge
Ru-103	Inhalation	S	10µm	0,05	1,5E-09	7,8E-09	Lunge
Ru-103	Inhalation	F	Tetroxid	0,05	1,1E-09	1,1E-09	Ovarien
Ru-103	Ingestion	-	-	0,05	7,3E-10	4,3E-09	Dickdarm

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Ru-103	Wunde	-	-	-	1,5E-09	1,6E-09	Ovarien
Ru-106	Inhalation	F	0,3µm	0,05	6,7E-09	6,3E-09	Uterus
Ru-106	Inhalation	F	1µm	0,05	8,0E-09	7,2E-09	Uterus
Ru-106	Inhalation	F	5µm	0,05	9,8E-09	8,5E-09	Uterus
Ru-106	Inhalation	F	10µm	0,05	8,4E-09	7,1E-09	Ovarien
Ru-106	Inhalation	M	0,3µm	0,05	3,3E-08	2,5E-07	Lunge
Ru-106	Inhalation	M	1µm	0,05	2,6E-08	1,9E-07	Lunge
Ru-106	Inhalation	M	5µm	0,05	1,7E-08	1,0E-07	Lunge
Ru-106	Inhalation	M	10µm	0,05	9,4E-09	4,8E-08	Lunge
Ru-106	Inhalation	S	0,3µm	0,05	8,3E-08	6,8E-07	Lunge
Ru-106	Inhalation	S	1µm	0,05	6,2E-08	5,0E-07	Lunge
Ru-106	Inhalation	S	5µm	0,05	3,5E-08	2,6E-07	Lunge
Ru-106	Inhalation	S	10µm	0,05	1,7E-08	1,2E-07	Lunge
Ru-106	Inhalation	F	Tetroxid	0,05	1,8E-08	1,5E-08	Ovarien
Ru-106	Ingestion	-	-	0,05	7,0E-09	4,5E-08	Dickdarm
Ru-106	Wunde	-	-	-	3,0E-08	2,9E-08	Ovarien
Rh-105	Inhalation	F	0,3µm	0,05	4,1E-11	1,5E-10	Dickdarm
Rh-105	Inhalation	F	1µm	0,05	8,7E-11	3,7E-10	Dickdarm
Rh-105	Inhalation	F	5µm	0,05	1,5E-10	6,4E-10	Dickdarm
Rh-105	Inhalation	F	10µm	0,05	1,4E-10	6,1E-10	Dickdarm
Rh-105	Inhalation	M	0,3µm	0,05	2,5E-10	1,9E-09	Lunge
Rh-105	Inhalation	M	1µm	0,05	3,1E-10	1,9E-09	Lunge
Rh-105	Inhalation	M	5µm	0,05	4,1E-10	1,7E-09	Lunge
Rh-105	Inhalation	M	10µm	0,05	3,0E-10	1,0E-09	Dickdarm
Rh-105	Inhalation	S	0,3µm	0,05	2,8E-10	2,1E-09	Lunge
Rh-105	Inhalation	S	1µm	0,05	3,4E-10	2,2E-09	Lunge
Rh-105	Inhalation	S	5µm	0,05	4,4E-10	1,9E-09	Lunge
Rh-105	Inhalation	S	10µm	0,05	3,2E-10	1,1E-09	Dickdarm
Rh-105	Ingestion	-	-	0,05	3,7E-10	2,7E-09	Dickdarm
Rh-105	Wunde	-	-	0,05	1,0E-10	3,5E-10	Dickdarm
Ag-108m	Inhalation	F	0,3µm	0,05	5,3E-09	3,7E-08	Leber
Ag-108m	Inhalation	F	1µm	0,05	6,1E-09	4,2E-08	Leber
Ag-108m	Inhalation	F	5µm	0,05	7,3E-09	5,0E-08	Leber
Ag-108m	Inhalation	F	10µm	0,05	6,1E-09	4,2E-08	Leber
Ag-108m	Inhalation	M	0,3µm	0,05	8,8E-09	3,8E-08	Lunge
Ag-108m	Inhalation	M	1µm	0,05	7,0E-09	2,9E-08	Lunge
Ag-108m	Inhalation	M	5µm	0,05	5,2E-09	1,6E-08	Lunge
Ag-108m	Inhalation	M	10µm	0,05	3,3E-09	1,1E-08	Leber
Ag-108m	Inhalation	S	0,3µm	0,05	4,8E-08	2,9E-07	Lunge
Ag-108m	Inhalation	S	1µm	0,05	3,5E-08	2,1E-07	Lunge
Ag-108m	Inhalation	S	5µm	0,05	1,9E-08	1,1E-07	Lunge
Ag-108m	Inhalation	S	10µm	0,05	1,1E-08	4,9E-08	Lunge
Ag-108m	Ingestion	-	-	0,05	2,3E-09	8,8E-09	Leber
Ag-108m	Wunde	-	-	-	2,4E-08	1,7E-07	Leber
Ag-110m	Inhalation	F	0,3µm	0,05	4,7E-09	3,1E-08	Leber
Ag-110m	Inhalation	F	1µm	0,05	5,5E-09	3,6E-08	Leber
Ag-110m	Inhalation	F	5µm	0,05	6,7E-09	4,2E-08	Leber
Ag-110m	Inhalation	F	10µm	0,05	5,6E-09	3,5E-08	Leber
Ag-110m	Inhalation	M	0,3µm	0,05	8,7E-09	4,2E-08	Lunge
Ag-110m	Inhalation	M	1µm	0,05	7,2E-09	3,3E-08	Lunge
Ag-110m	Inhalation	M	5µm	0,05	5,9E-09	2,1E-08	Lunge
Ag-110m	Inhalation	M	10µm	0,05	3,9E-09	1,0E-08	Lunge
Ag-110m	Inhalation	S	0,3µm	0,05	1,5E-08	8,7E-08	Lunge

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Ag-110m	Inhalation	S	1µm	0,05	1,2E-08	6,7E-08	Lunge
Ag-110m	Inhalation	S	5µm	0,05	7,3E-09	3,8E-08	Lunge
Ag-110m	Inhalation	S	10µm	0,05	4,8E-09	1,8E-08	Lunge
Ag-110m	Ingestion	-	-	0,05	2,8E-09	3,5E-09	Ovarien
Ag-110m	Wunde	-	-	-	2,2E-08	1,5E-07	Leber
Cd-109	Inhalation	F	0,3µm	0,05	7,1E-09	1,7E-07	Nieren
Cd-109	Inhalation	F	1µm	0,05	8,1E-09	2,0E-07	Nieren
Cd-109	Inhalation	F	5µm	0,05	9,6E-09	2,3E-07	Nieren
Cd-109	Inhalation	F	10µm	0,05	8,1E-09	2,0E-07	Nieren
Cd-109	Inhalation	M	0,3µm	0,05	6,9E-09	8,2E-08	Nieren
Cd-109	Inhalation	M	1µm	0,05	6,2E-09	7,2E-08	Nieren
Cd-109	Inhalation	M	5µm	0,05	5,1E-09	6,1E-08	Nieren
Cd-109	Inhalation	M	10µm	0,05	3,2E-09	4,4E-08	Nieren
Cd-109	Inhalation	S	0,3µm	0,05	6,7E-09	5,3E-08	Lunge
Cd-109	Inhalation	S	1µm	0,05	5,8E-09	4,5E-08	Lunge
Cd-109	Inhalation	S	5µm	0,05	4,4E-09	3,3E-08	Lunge
Cd-109	Inhalation	S	10µm	0,05	2,9E-09	1,7E-08	Nieren
Cd-109	Ingestion	-	-	0,05	2,0E-09	4,0E-08	Nieren
Cd-109	Wunde	-	-	-	3,3E-08	8,1E-07	Nieren
In-111	Inhalation	F	0,3µm	0,02	7,3E-11	1,3E-10	rotes Knochenm.
In-111	Inhalation	F	1µm	0,02	1,3E-10	1,5E-10	rotes Knochenm.
In-111	Inhalation	F	5µm	0,02	2,2E-10	1,9E-10	rotes Knochenm.
In-111	Inhalation	F	10µm	0,02	2,1E-10	1,6E-10	rotes Knochenm.
In-111	Inhalation	M	0,3µm	0,02	1,5E-10	8,9E-10	Lunge
In-111	Inhalation	M	1µm	0,02	2,3E-10	9,0E-10	Lunge
In-111	Inhalation	M	5µm	0,02	3,1E-10	7,6E-10	Lunge
In-111	Inhalation	M	10µm	0,02	2,6E-10	5,6E-10	Dickdarm
In-111	Ingestion	-	-	0,02	2,9E-10	1,5E-09	Dickdarm
In-111	Wunde	-	-	-	2,5E-10	6,0E-10	rotes Knochenm.
In-113m	Inhalation	F	0,3µm	0,02	4,3E-12	2,6E-12	rotes Knochenm.
In-113m	Inhalation	F	1µm	0,02	1,0E-11	1,4E-11	Magen
In-113m	Inhalation	F	5µm	0,02	1,9E-11	2,6E-11	Magen
In-113m	Inhalation	F	10µm	0,02	1,8E-11	2,5E-11	Magen
In-113m	Inhalation	M	0,3µm	0,02	1,1E-11	6,1E-11	Lunge
In-113m	Inhalation	M	1µm	0,02	2,0E-11	6,7E-11	Lunge
In-113m	Inhalation	M	5µm	0,02	3,2E-11	7,0E-11	Lunge
In-113m	Inhalation	M	10µm	0,02	2,9E-11	4,5E-11	Magen
In-113m	Ingestion	-	-	0,02	2,8E-11	1,3E-10	Magen
In-113m	Wunde	-	-	-	6,0E-12	1,3E-11	rotes Knochenm.
Sn-113	Inhalation	F	0,3µm	0,02	4,4E-10	1,1E-09	rotes Knochenm.
Sn-113	Inhalation	F	1µm	0,02	5,4E-10	1,2E-09	rotes Knochenm.
Sn-113	Inhalation	F	5µm	0,02	7,9E-10	1,4E-09	rotes Knochenm.
Sn-113	Inhalation	F	10µm	0,02	6,9E-10	1,2E-09	rotes Knochenm.
Sn-113	Inhalation	M	0,3µm	0,02	2,7E-09	2,0E-08	Lunge
Sn-113	Inhalation	M	1µm	0,02	2,5E-09	1,8E-08	Lunge
Sn-113	Inhalation	M	5µm	0,02	1,9E-09	1,3E-08	Lunge
Sn-113	Inhalation	M	10µm	0,02	1,1E-09	6,2E-09	Lunge
Sn-113	Ingestion	-	-	0,02	7,3E-10	5,0E-09	Dickdarm
Sn-113	Wunde	-	-	-	1,9E-09	4,8E-09	rotes Knochenm.
Sb-122	Inhalation	F	0,3µm	0,1	2,0E-10	3,5E-10	rotes Knochenm.
Sb-122	Inhalation	F	1µm	0,1	3,9E-10	1,6E-09	Dickdarm
Sb-122	Inhalation	F	5µm	0,1	6,3E-10	2,9E-09	Dickdarm

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Sb-122	Inhalation	F	10µm	0,1	5,9E-10	2,7E-09	Dickdarm
Sb-122	Inhalation	M	0,3µm	0,01	8,2E-10	5,5E-09	Lunge
Sb-122	Inhalation	M	1µm	0,01	1,0E-09	5,2E-09	Lunge
Sb-122	Inhalation	M	5µm	0,01	1,2E-09	5,3E-09	Dickdarm
Sb-122	Inhalation	M	10µm	0,01	1,1E-09	5,1E-09	Dickdarm
Sb-122	Ingestion	-	-	0,1	1,7E-09	1,2E-08	Dickdarm
Sb-122	Wunde	-	-	-	6,2E-10	1,6E-09	rotes Knochenm.
Sb-124	Inhalation	F	0,3µm	0,1	8,7E-10	2,0E-09	rotes Knochenm.
Sb-124	Inhalation	F	1µm	0,1	1,3E-09	2,3E-09	rotes Knochenm.
Sb-124	Inhalation	F	5µm	0,1	1,9E-09	2,8E-09	rotes Knochenm.
Sb-124	Inhalation	F	10µm	0,1	1,7E-09	2,4E-09	rotes Knochenm.
Sb-124	Inhalation	M	0,3µm	0,01	6,7E-09	4,7E-08	Lunge
Sb-124	Inhalation	M	1µm	0,01	6,1E-09	4,1E-08	Lunge
Sb-124	Inhalation	M	5µm	0,01	4,7E-09	2,8E-08	Lunge
Sb-124	Inhalation	M	10µm	0,01	3,3E-09	1,4E-08	Lunge
Sb-124	Ingestion	-	-	0,1	2,5E-09	1,4E-08	Dickdarm
Sb-124	Wunde	-	-	-	3,7E-09	9,2E-09	rotes Knochenm.
Sb-125	Inhalation	F	0,3µm	0,1	1,2E-09	2,0E-08	Knochenoberfl.
Sb-125	Inhalation	F	1µm	0,1	1,4E-09	2,3E-08	Knochenoberfl.
Sb-125	Inhalation	F	5µm	0,1	1,7E-09	2,7E-08	Knochenoberfl.
Sb-125	Inhalation	F	10µm	0,1	1,5E-09	2,3E-08	Knochenoberfl.
Sb-125	Inhalation	M	0,3µm	0,01	5,1E-09	3,4E-08	Lunge
Sb-125	Inhalation	M	1µm	0,01	4,5E-09	3,0E-08	Lunge
Sb-125	Inhalation	M	5µm	0,01	3,3E-09	2,2E-08	Lunge
Sb-125	Inhalation	M	10µm	0,01	1,8E-09	1,1E-08	Lunge
Sb-125	Ingestion	-	-	0,1	1,1E-09	1,5E-09	rotes Knochenm.
Sb-125	Wunde	-	-	-	5,4E-09	8,9E-08	Knochenoberfl.
Te-123m	Inhalation	F	0,3µm	0,3	7,7E-10	2,8E-08	Knochenoberfl.
Te-123m	Inhalation	F	1µm	0,3	9,7E-10	3,4E-08	Knochenoberfl.
Te-123m	Inhalation	F	5µm	0,3	1,2E-09	4,2E-08	Knochenoberfl.
Te-123m	Inhalation	F	10µm	0,3	1,1E-09	3,6E-08	Knochenoberfl.
Te-123m	Inhalation	M	0,3µm	0,3	4,0E-09	2,9E-08	Lunge
Te-123m	Inhalation	M	1µm	0,3	3,9E-09	2,8E-08	Lunge
Te-123m	Inhalation	M	5µm	0,3	3,4E-09	2,2E-08	Lunge
Te-123m	Inhalation	M	10µm	0,3	2,0E-09	1,1E-08	Lunge
Te-123m	Inhalation	F	Dampf	0,3	2,9E-09	1,0E-07	Knochenoberfl.
Te-123m	Ingestion	-	-	0,3	1,4E-09	3,7E-08	Knochenoberfl.
Te-123m	Wunde	-	-	-	3,4E-09	1,2E-07	Knochenoberfl.
Te-132	Inhalation	F	0,3µm	0,3	1,4E-09	2,0E-08	Schilddrüse
Te-132	Inhalation	F	1µm	0,3	1,8E-09	2,5E-08	Schilddrüse
Te-132	Inhalation	F	5µm	0,3	2,4E-09	3,2E-08	Schilddrüse
Te-132	Inhalation	F	10µm	0,3	2,1E-09	2,7E-08	Schilddrüse
Te-132	Inhalation	M	0,3µm	0,3	1,7E-09	1,0E-08	Lunge
Te-132	Inhalation	M	1µm	0,3	2,2E-09	9,5E-09	Lunge
Te-132	Inhalation	M	5µm	0,3	3,0E-09	1,5E-08	Schilddrüse
Te-132	Inhalation	M	10µm	0,3	2,5E-09	1,4E-08	Schilddrüse
Te-132	Inhalation	F	Dampf	0,3	5,1E-09	7,6E-08	Schilddrüse
Te-132	Ingestion	-	-	0,3	3,7E-09	3,1E-08	Schilddrüse
Te-132	Wunde	-	-	0,3	1,4E-09	2,4E-09	rotes Knochenm.
I-123	Inhalation	F	0,3µm	1	5,4E-11	1,0E-09	Schilddrüse
I-123	Inhalation	F	1µm	1	7,6E-11	1,4E-09	Schilddrüse
I-123	Inhalation	F	5µm	1	1,1E-10	1,9E-09	Schilddrüse

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
I-123	Inhalation	F	10µm	1	9,3E-11	1,7E-09	Schilddrüse
I-123	Inhalation	F	Dampf	1	2,1E-10	3,7E-09	Schilddrüse
I-123	Inhalation	V	Methyl	-	1,5E-10	2,9E-09	Schilddrüse
I-123	Ingestion	-	-	1	2,1E-10	3,9E-09	Schilddrüse
I-123	Wunde	-	-	-	2,2E-10	4,2E-09	Schilddrüse
I-124	Inhalation	F	0,3µm	1	3,2E-09	6,3E-08	Schilddrüse
I-124	Inhalation	F	1µm	1	4,5E-09	9,0E-08	Schilddrüse
I-124	Inhalation	F	5µm	1	6,3E-09	1,2E-07	Schilddrüse
I-124	Inhalation	F	10µm	1	5,6E-09	1,1E-07	Schilddrüse
I-124	Inhalation	F	Dampf	1	1,2E-08	2,3E-07	Schilddrüse
I-124	Inhalation	V	Methyl	-	9,2E-09	1,8E-07	Schilddrüse
I-124	Ingestion	-	-	1	1,3E-08	2,6E-07	Schilddrüse
I-124	Wunde	-	-	-	1,3E-08	2,6E-07	Schilddrüse
I-125	Inhalation	F	0,3µm	1	3,7E-09	7,4E-08	Schilddrüse
I-125	Inhalation	F	1µm	1	5,3E-09	1,0E-07	Schilddrüse
I-125	Inhalation	F	5µm	1	7,3E-09	1,5E-07	Schilddrüse
I-125	Inhalation	F	10µm	1	6,5E-09	1,3E-07	Schilddrüse
I-125	Inhalation	F	Dampf	1	1,4E-08	2,7E-07	Schilddrüse
I-125	Inhalation	V	Methyl	-	1,1E-08	2,1E-07	Schilddrüse
I-125	Ingestion	-	-	1	1,5E-08	3,0E-07	Schilddrüse
I-125	Wunde	-	-	-	1,6E-08	3,1E-07	Schilddrüse
I-129	Inhalation	F	0,3µm	1	2,6E-08	5,2E-07	Schilddrüse
I-129	Inhalation	F	1µm	1	3,7E-08	7,3E-07	Schilddrüse
I-129	Inhalation	F	5µm	1	5,1E-08	1,0E-06	Schilddrüse
I-129	Inhalation	F	10µm	1	4,5E-08	9,0E-07	Schilddrüse
I-129	Inhalation	F	Dampf	1	9,6E-08	1,9E-06	Schilddrüse
I-129	Inhalation	V	Methyl	-	7,4E-08	1,5E-06	Schilddrüse
I-129	Ingestion	-	-	1	1,1E-07	2,1E-06	Schilddrüse
I-129	Wunde	-	-	-	-	-	-
I-131	Inhalation	F	0,3µm	1	5,4E-09	1,1E-07	Schilddrüse
I-131	Inhalation	F	1µm	1	7,6E-09	1,5E-07	Schilddrüse
I-131	Inhalation	F	5µm	1	1,1E-08	2,1E-07	Schilddrüse
I-131	Inhalation	F	10µm	1	9,3E-09	1,9E-07	Schilddrüse
I-131	Inhalation	F	Dampf	1	2,0E-08	3,9E-07	Schilddrüse
I-131	Inhalation	V	Methyl	-	1,5E-08	3,1E-07	Schilddrüse
I-131	Ingestion	-	-	1	2,2E-08	4,3E-07	Schilddrüse
I-131	Wunde	-	-	-	2,2E-08	4,4E-07	Schilddrüse
I-132	Inhalation	F	0,3µm	1	6,7E-11	1,0E-09	Schilddrüse
I-132	Inhalation	F	1µm	1	9,6E-11	1,4E-09	Schilddrüse
I-132	Inhalation	F	5µm	1	2,0E-10	1,9E-09	Schilddrüse
I-132	Inhalation	F	10µm	1	1,9E-10	1,7E-09	Schilddrüse
I-132	Inhalation	F	Dampf	1	3,1E-10	3,6E-09	Schilddrüse
I-132	Inhalation	V	Methyl	-	1,9E-10	3,2E-09	Schilddrüse
I-132	Ingestion	-	-	1	2,9E-10	3,4E-09	Schilddrüse
I-132	Wunde	-	-	-	2,8E-10	4,6E-09	Schilddrüse
I-133	Inhalation	F	0,3µm	1	1,1E-09	2,1E-08	Schilddrüse
I-133	Inhalation	F	1µm	1	1,5E-09	2,9E-08	Schilddrüse
I-133	Inhalation	F	5µm	1	2,1E-09	4,0E-08	Schilddrüse
I-133	Inhalation	F	10µm	1	1,8E-09	3,6E-08	Schilddrüse
I-133	Inhalation	F	Dampf	1	4,0E-09	7,6E-08	Schilddrüse
I-133	Inhalation	V	Methyl	-	3,1E-09	6,0E-08	Schilddrüse

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
I-133	Ingestion	-	-	1	4,3E-09	8,2E-08	Schilddrüse
I-133	Wunde	-	-	-	4,4E-09	8,6E-08	Schilddrüse
Cs-134	Inhalation	F	0,3µm	1	4,8E-09	5,3E-09	Uterus
Cs-134	Inhalation	F	1µm	1	6,8E-09	7,6E-09	Uterus
Cs-134	Inhalation	F	5µm	1	9,6E-09	1,0E-08	Ovarien
Cs-134	Inhalation	F	10µm	1	8,5E-09	9,3E-09	Uterus
Cs-134	Ingestion	-	-	1	1,9E-08	2,2E-08	Uterus
Cs-134	Wunde	-	-	-	2,0E-08	2,2E-08	Uterus
Cs-137	Inhalation	F	0,3µm	1	3,3E-09	3,5E-09	Ovarien
Cs-137	Inhalation	F	1µm	1	4,8E-09	5,0E-09	Ovarien
Cs-137	Inhalation	F	5µm	1	6,7E-09	6,9E-09	Uterus
Cs-137	Inhalation	F	10µm	1	5,9E-09	6,1E-09	Uterus
Cs-137	Ingestion	-	-	1	1,3E-08	1,4E-08	Ovarien
Cs-137	Wunde	-	-	-	1,4E-08	1,5E-08	Uterus
Ba-133	Inhalation	F	0,3µm	0,1	1,2E-09	4,0E-09	rotes Knochenm.
Ba-133	Inhalation	F	1µm	0,1	1,5E-09	4,6E-09	rotes Knochenm.
Ba-133	Inhalation	F	5µm	0,1	1,8E-09	5,5E-09	rotes Knochenm.
Ba-133	Inhalation	F	10µm	0,1	1,5E-09	4,6E-09	rotes Knochenm.
Ba-133	Ingestion	-	-	0,1	1,0E-09	1,9E-09	rotes Knochenm.
Ba-133	Wunde	-	-	-	5,7E-09	1,8E-08	rotes Knochenm.
Ba-140	Inhalation	F	0,3µm	0,1	7,7E-10	3,9E-09	Dickdarm
Ba-140	Inhalation	F	1µm	0,1	1,0E-09	5,6E-09	Dickdarm
Ba-140	Inhalation	F	5µm	0,1	1,6E-09	7,9E-09	Dickdarm
Ba-140	Inhalation	F	10µm	0,1	1,5E-09	7,0E-09	Dickdarm
Ba-140	Ingestion	-	-	0,1	2,5E-09	1,7E-08	Dickdarm
Ba-140	Wunde	-	-	-	3,2E-09	5,5E-09	rotes Knochenm.
La-140	Inhalation	F	0,3µm	0,0005	3,1E-10	1,8E-09	Leber
La-140	Inhalation	F	1µm	0,0005	6,0E-10	2,1E-09	Leber
La-140	Inhalation	F	5µm	0,0005	1,0E-09	2,7E-09	Dickdarm
La-140	Inhalation	F	10µm	0,0005	9,6E-10	2,6E-09	Dickdarm
La-140	Inhalation	M	0,3µm	0,0005	6,8E-10	4,0E-09	Lunge
La-140	Inhalation	M	1µm	0,0005	1,1E-09	3,7E-09	Lunge
La-140	Inhalation	M	5µm	0,0005	1,5E-09	5,0E-09	Dickdarm
La-140	Inhalation	M	10µm	0,0005	1,3E-09	4,8E-09	Dickdarm
La-140	Ingestion	-	-	0,0005	2,0E-09	1,3E-08	Dickdarm
La-140	Wunde	-	-	-	9,2E-10	8,6E-09	Leber
Ce-141	Inhalation	M	0,3µm	0,0005	2,9E-09	2,2E-08	Lunge
Ce-141	Inhalation	M	1µm	0,0005	3,1E-09	2,3E-08	Lunge
Ce-141	Inhalation	M	5µm	0,0005	2,7E-09	1,9E-08	Lunge
Ce-141	Inhalation	M	10µm	0,0005	1,6E-09	1,0E-08	Lunge
Ce-141	Inhalation	S	0,3µm	0,0005	3,4E-09	2,7E-08	Lunge
Ce-141	Inhalation	S	1µm	0,0005	3,6E-09	2,8E-08	Lunge
Ce-141	Inhalation	S	5µm	0,0005	3,1E-09	2,4E-08	Lunge
Ce-141	Inhalation	S	10µm	0,0005	1,8E-09	1,2E-08	Lunge
Ce-141	Ingestion	-	-	0,0005	7,1E-10	5,5E-09	Dickdarm
Ce-141	Wunde	-	-	-	3,6E-09	6,9E-08	Knochenoberfl.
Ce-144	Inhalation	M	0,3µm	0,0005	4,2E-08	2,2E-07	Lunge
Ce-144	Inhalation	M	1µm	0,0005	3,4E-08	1,7E-07	Lunge
Ce-144	Inhalation	M	5µm	0,0005	2,3E-08	1,0E-07	Lunge
Ce-144	Inhalation	M	10µm	0,0005	1,4E-08	6,6E-08	Leber

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Ce-144	Inhalation	S	0,3µm	0,0005	6,4E-08	5,2E-07	Lunge
Ce-144	Inhalation	S	1µm	0,0005	4,9E-08	3,9E-07	Lunge
Ce-144	Inhalation	S	5µm	0,0005	2,9E-08	2,2E-07	Lunge
Ce-144	Inhalation	S	10µm	0,0005	1,4E-08	1,0E-07	Lunge
Ce-144	Ingestion	-	-	0,0005	5,2E-09	4,2E-08	Dickdarm
Ce-144	Wunde	-	-	-	1,6E-07	1,9E-06	Leber
Pm-147	Inhalation	M	0,3µm	0,0005	5,4E-09	9,0E-08	Knochenoberfl.
Pm-147	Inhalation	M	1µm	0,0005	4,7E-09	7,2E-08	Knochenoberfl.
Pm-147	Inhalation	M	5µm	0,0005	3,5E-09	5,1E-08	Knochenoberfl.
Pm-147	Inhalation	M	10µm	0,0005	2,1E-09	3,2E-08	Knochenoberfl.
Pm-147	Inhalation	S	0,3µm	0,0005	5,4E-09	4,3E-08	Lunge
Pm-147	Inhalation	S	1µm	0,0005	4,6E-09	3,6E-08	Lunge
Pm-147	Inhalation	S	5µm	0,0005	3,2E-09	2,5E-08	Lunge
Pm-147	Inhalation	S	10µm	0,0005	2,1E-09	1,2E-08	Lunge
Pm-147	Ingestion	-	-	0,0005	2,6E-10	2,0E-09	Dickdarm
Pm-147	Wunde	-	-	-	2,9E-08	8,7E-07	Knochenoberfl.
Eu-152	Inhalation	M	0,3µm	0,0005	4,9E-08	3,3E-07	Leber
Eu-152	Inhalation	M	1µm	0,0005	3,9E-08	2,6E-07	Leber
Eu-152	Inhalation	M	5µm	0,0005	2,7E-08	1,8E-07	Leber
Eu-152	Inhalation	M	10µm	0,0005	1,7E-08	1,1E-07	Leber
Eu-152	Ingestion	-	-	0,0005	1,4E-09	6,7E-09	Dickdarm
Eu-152	Wunde	-	-	-	3,9E-07	2,9E-06	Leber
Eu-154	Inhalation	M	0,3µm	0,0005	6,2E-08	4,0E-07	Leber
Eu-154	Inhalation	M	1µm	0,0005	5,0E-08	3,2E-07	Leber
Eu-154	Inhalation	M	5µm	0,0005	3,5E-08	2,2E-07	Leber
Eu-154	Inhalation	M	10µm	0,0005	2,1E-08	1,4E-07	Leber
Eu-154	Ingestion	-	-	0,0005	2,0E-09	1,2E-08	Dickdarm
Eu-154	Wunde	-	-	-	4,6E-07	3,6E-06	Leber
Eu-155	Inhalation	M	0,3µm	0,0005	8,0E-09	1,4E-07	Knochenoberfl.
Eu-155	Inhalation	M	1µm	0,0005	6,5E-09	1,1E-07	Knochenoberfl.
Eu-155	Inhalation	M	5µm	0,0005	4,7E-09	7,7E-08	Knochenoberfl.
Eu-155	Inhalation	M	10µm	0,0005	2,8E-09	4,9E-08	Knochenoberfl.
Eu-155	Ingestion	-	-	0,0005	3,2E-10	2,2E-09	Dickdarm
Eu-155	Wunde	-	-	-	5,2E-08	1,3E-06	Knochenoberfl.
Yb-169	Inhalation	M	0,3µm	0,0005	2,5E-09	1,9E-08	Lunge
Yb-169	Inhalation	M	1µm	0,0005	2,4E-09	1,7E-08	Lunge
Yb-169	Inhalation	M	5µm	0,0005	2,1E-09	1,4E-08	Lunge
Yb-169	Inhalation	M	10µm	0,0005	1,2E-09	7,1E-09	Lunge
Yb-169	Inhalation	S	0,3µm	0,0005	2,9E-09	2,3E-08	Lunge
Yb-169	Inhalation	S	1µm	0,0005	2,8E-09	2,1E-08	Lunge
Yb-169	Inhalation	S	5µm	0,0005	2,4E-09	1,7E-08	Lunge
Yb-169	Inhalation	S	10µm	0,0005	1,3E-09	8,7E-09	Lunge
Yb-169	Ingestion	-	-	0,0005	7,1E-10	4,7E-09	Dickdarm
Yb-169	Wunde	-	-	-	2,6E-09	8,6E-08	Knochenoberfl.
Lu-177	Inhalation	M	0,3µm	0,0005	9,1E-10	7,1E-09	Lunge
Lu-177	Inhalation	M	1µm	0,0005	1,0E-09	7,4E-09	Lunge
Lu-177	Inhalation	M	5µm	0,0005	1,0E-09	6,0E-09	Lunge
Lu-177	Inhalation	M	10µm	0,0005	6,2E-10	3,3E-09	Lunge
Lu-177	Inhalation	S	0,3µm	0,0005	1,0E-09	8,1E-09	Lunge
Lu-177	Inhalation	S	1µm	0,0005	1,1E-09	8,5E-09	Lunge
Lu-177	Inhalation	S	5µm	0,0005	1,1E-09	7,3E-09	Lunge

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Lu-177	Inhalation	S	10µm	0,0005	6,7E-10	3,8E-09	Lunge
Lu-177	Ingestion	-	-	0,0005	5,3E-10	4,2E-09	Dickdarm
Lu-177	Wunde	-	-	-	-	-	-
Hf-181	Inhalation	F	0,3µm	0,002	1,2E-09	3,7E-08	Knochenoberfl.
Hf-181	Inhalation	F	1µm	0,002	1,4E-09	4,1E-08	Knochenoberfl.
Hf-181	Inhalation	F	5µm	0,002	1,8E-09	4,8E-08	Knochenoberfl.
Hf-181	Inhalation	F	10µm	0,002	1,5E-09	4,0E-08	Knochenoberfl.
Hf-181	Inhalation	M	0,3µm	0,002	4,7E-09	3,4E-08	Lunge
Hf-181	Inhalation	M	1µm	0,002	4,7E-09	3,4E-08	Lunge
Hf-181	Inhalation	M	5µm	0,002	4,1E-09	2,8E-08	Lunge
Hf-181	Inhalation	M	10µm	0,002	2,4E-09	1,5E-08	Lunge
Hf-181	Ingestion	-	-	0,002	1,1E-09	7,4E-09	Dickdarm
Hf-181	Wunde	-	-	-	5,5E-09	1,7E-07	Knochenoberfl.
Ta-182	Inhalation	M	0,3µm	0,001	7,7E-09	5,4E-08	Lunge
Ta-182	Inhalation	M	1µm	0,001	7,2E-09	5,0E-08	Lunge
Ta-182	Inhalation	M	5µm	0,001	5,8E-09	3,9E-08	Lunge
Ta-182	Inhalation	M	10µm	0,001	3,3E-09	2,0E-08	Lunge
Ta-182	Inhalation	S	0,3µm	0,001	1,1E-08	7,9E-08	Lunge
Ta-182	Inhalation	S	1µm	0,001	9,7E-09	7,1E-08	Lunge
Ta-182	Inhalation	S	5µm	0,001	7,4E-09	5,3E-08	Lunge
Ta-182	Inhalation	S	10µm	0,001	4,0E-09	2,7E-08	Lunge
Ta-182	Ingestion	-	-	0,001	1,5E-09	9,2E-09	Dickdarm
Ta-182	Wunde	-	-	-	7,7E-09	3,8E-08	Nieren
Re-186	Inhalation	F	0,3µm	0,8	3,8E-10	1,5E-09	Magen
Re-186	Inhalation	F	1µm	0,8	5,3E-10	2,1E-09	Magen
Re-186	Inhalation	F	5µm	0,8	7,3E-10	2,9E-09	Magen
Re-186	Inhalation	F	10µm	0,8	6,5E-10	2,5E-09	Magen
Re-186	Inhalation	M	0,3µm	0,8	8,6E-10	5,9E-09	Lunge
Re-186	Inhalation	M	1µm	0,8	1,1E-09	6,0E-09	Lunge
Re-186	Inhalation	M	5µm	0,8	1,2E-09	5,0E-09	Lunge
Re-186	Inhalation	M	10µm	0,8	9,8E-10	2,6E-09	Lunge
Re-186	Ingestion	-	-	0,8	1,5E-09	5,4E-09	Magen
Re-186	Wunde	-	-	-	1,5E-09	6,3E-09	Magen
Ir-192	Inhalation	F	0,3µm	0,01	1,5E-09	7,9E-09	Leber
Ir-192	Inhalation	F	1µm	0,01	1,8E-09	8,9E-09	Leber
Ir-192	Inhalation	F	5µm	0,01	2,2E-09	1,0E-08	Leber
Ir-192	Inhalation	F	10µm	0,01	2,1E-09	8,6E-09	Leber
Ir-192	Inhalation	M	0,3µm	0,01	5,0E-09	3,5E-08	Lunge
Ir-192	Inhalation	M	1µm	0,01	4,9E-09	3,4E-08	Lunge
Ir-192	Inhalation	M	5µm	0,01	4,1E-09	2,6E-08	Lunge
Ir-192	Inhalation	M	10µm	0,01	2,4E-09	1,3E-08	Lunge
Ir-192	Inhalation	S	0,3µm	0,01	6,5E-09	4,9E-08	Lunge
Ir-192	Inhalation	S	1µm	0,01	6,2E-09	4,6E-08	Lunge
Ir-192	Inhalation	S	5µm	0,01	4,9E-09	3,4E-08	Lunge
Ir-192	Inhalation	S	10µm	0,01	2,7E-09	1,7E-08	Lunge
Ir-192	Ingestion	-	-	0,01	1,4E-09	8,4E-09	Dickdarm
Ir-192	Wunde	-	-	-	6,7E-09	3,7E-08	Leber
Hg-197	Inhalation	F org.	0,3µm	0,4	2,6E-11	2,2E-10	Nieren
Hg-197	Inhalation	F org.	1µm	0,4	5,0E-11	2,7E-10	Nieren
Hg-197	Inhalation	F org.	5µm	0,4	8,5E-11	3,4E-10	Nieren
Hg-197	Inhalation	F org.	10µm	0,4	8,1E-11	3,0E-10	Nieren
Hg-197	Ingestion	org.	-	1	9,9E-11	9,4E-10	Nieren

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Hg-197	Ingestion	org.	-	0,4	1,7E-10	1,1E-09	Dickdarm
Hg-197	Wunde	org.	-	-	8,8E-11	9,6E-10	Nieren
Hg-197	Inhalation	F anorg.	0,3µm	0,02	3,0E-11	2,0E-10	Nieren
Hg-197	Inhalation	F anorg.	1µm	0,02	6,0E-11	2,3E-10	Nieren
Hg-197	Inhalation	F anorg.	5µm	0,02	1,0E-10	3,7E-10	Dickdarm
Hg-197	Inhalation	F anorg.	10µm	0,02	9,6E-11	3,5E-10	Dickdarm
Hg-197	Inhalation	M anorg.	0,3µm	0,02	3,0E-10	2,3E-09	Lunge
Hg-197	Inhalation	M anorg.	1µm	0,02	2,9E-10	1,9E-09	Lunge
Hg-197	Inhalation	M anorg.	5µm	0,02	2,8E-10	1,6E-09	Lunge
Hg-197	Inhalation	M anorg.	10µm	0,02	2,2E-10	8,2E-10	Lunge
Hg-197	Inhalation	Dampf	-	-	4,4E-09	3,6E-08	Lunge
Hg-197	Ingestion	anorg.	-	0,02	2,3E-10	1,7E-09	Dickdarm
Hg-197	Wunde	anorg.	-	-	1,0E-10	9,4E-10	Nieren
Hg-203	Inhalation	F org.	0,3µm	0,4	4,4E-10	4,2E-09	Nieren
Hg-203	Inhalation	F org.	1µm	0,4	5,7E-10	5,3E-09	Nieren
Hg-203	Inhalation	F org.	5µm	0,4	7,5E-10	6,7E-09	Nieren
Hg-203	Inhalation	F org.	10µm	0,4	6,6E-10	5,8E-09	Nieren
Hg-203	Ingestion	org.	-	1	1,9E-09	1,8E-08	Nieren
Hg-203	Ingestion	org.	-	0,4	1,1E-09	7,5E-09	Nieren
Hg-203	Wunde	org.	-	-	1,9E-09	1,9E-08	Nieren
Hg-203	Inhalation	F anorg.	0,3µm	0,02	3,8E-10	3,0E-09	Nieren
Hg-203	Inhalation	F anorg.	1µm	0,02	4,7E-10	3,4E-09	Nieren
Hg-203	Inhalation	F anorg.	5µm	0,02	5,9E-10	4,0E-09	Nieren
Hg-203	Inhalation	F anorg.	10µm	0,02	5,1E-10	3,4E-09	Nieren
Hg-203	Inhalation	M anorg.	0,3µm	0,02	2,3E-09	1,7E-08	Lunge
Hg-203	Inhalation	M anorg.	1µm	0,02	2,3E-09	1,7E-08	Lunge
Hg-203	Inhalation	M anorg.	5µm	0,02	1,9E-09	1,4E-08	Lunge
Hg-203	Inhalation	M anorg.	10µm	0,02	1,1E-09	7,1E-09	Lunge
Hg-203	Inhalation	Dampf	-	-	7,0E-09	5,1E-08	Lunge
Hg-203	Ingestion	anorg.	-	0,02	5,4E-10	3,5E-09	Dickdarm
Hg-203	Wunde	anorg.	-	-	1,7E-09	1,4E-08	Nieren
Tl-201	Inhalation	F	0,3µm	1	2,6E-11	6,6E-11	Nieren
Tl-201	Inhalation	F	1µm	1	4,7E-11	9,4E-11	Nieren
Tl-201	Inhalation	F	5µm	1	7,6E-11	1,3E-10	Nieren
Tl-201	Inhalation	F	10µm	1	7,2E-11	1,2E-10	Nieren
Tl-201	Ingestion	-	-	1	9,5E-11	2,7E-10	Nieren
Tl-201	Wunde	-	-	-	8,9E-11	2,8E-10	Nieren
Tl-204	Inhalation	F	0,3µm	1	3,1E-10	1,1E-09	Nieren
Tl-204	Inhalation	F	1µm	1	4,4E-10	1,6E-09	Nieren
Tl-204	Inhalation	F	5µm	1	6,2E-10	2,2E-09	Nieren
Tl-204	Inhalation	F	10µm	1	5,5E-10	1,9E-09	Dickdarm
Tl-204	Ingestion	-	-	1	1,3E-09	4,5E-09	Nieren
Tl-204	Wunde	-	-	-	1,3E-09	4,6E-09	Nieren
Pb-210	Inhalation	F	0,3µm	0,2	7,6E-07	2,5E-05	Knochenoberfl.
Pb-210	Inhalation	F	1µm	0,2	8,9E-07	2,9E-05	Knochenoberfl.
Pb-210	Inhalation	F	5µm	0,2	1,1E-06	3,6E-05	Knochenoberfl.
Pb-210	Inhalation	F	10µm	0,2	9,4E-07	3,1E-05	Knochenoberfl.
Pb-210	Ingestion	-	-	0,2	6,8E-07	2,3E-05	Knochenoberfl.
Pb-210	Wunde	-	-	-	-	-	-
Po-210	Inhalation	F	0,3µm	0,1	5,2E-07	5,5E-06	Nieren
Po-210	Inhalation	F	1µm	0,1	6,0E-07	6,3E-06	Nieren
Po-210	Inhalation	F	5µm	0,1	7,1E-07	7,5E-06	Nieren

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Po-210	Inhalation	F	10µm	0,1	6,0E-07	6,3E-06	Nieren
Po-210	Inhalation	M	0,3µm	0,1	3,9E-06	3,2E-05	Lunge
Po-210	Inhalation	M	1µm	0,1	3,0E-06	2,3E-05	Lunge
Po-210	Inhalation	M	5µm	0,1	2,2E-06	1,7E-05	Lunge
Po-210	Inhalation	M	10µm	0,1	1,1E-06	8,5E-06	Lunge
Po-210	Ingestion	-	-	0,1	2,4E-07	2,5E-06	Nieren
Po-210	Wunde	-	-	-	2,4E-06	2,5E-05	Nieren
Ra-224	Inhalation	M	0,3µm	0,2	3,3E-06	2,7E-05	Lunge
Ra-224	Inhalation	M	1µm	0,2	2,9E-06	2,4E-05	Lunge
Ra-224	Inhalation	M	5µm	0,2	2,4E-06	2,0E-05	Lunge
Ra-224	Inhalation	M	10µm	0,2	1,3E-06	1,1E-05	Lunge
Ra-224	Ingestion	-	-	0,2	6,5E-08	1,7E-06	Knochenoberfl.
Ra-224	Wunde	-	-	-	-	-	-
Ra-226	Inhalation	M	0,3µm	0,2	4,4E-06	3,5E-05	Lunge
Ra-226	Inhalation	M	1µm	0,2	3,2E-06	2,5E-05	Lunge
Ra-226	Inhalation	M	5µm	0,2	2,2E-06	1,7E-05	Lunge
Ra-226	Inhalation	M	10µm	0,2	1,5E-06	8,3E-06	Lunge
Ra-226	Ingestion	-	-	0,2	2,8E-07	1,2E-05	Knochenoberfl.
Ra-226	Wunde	-	-	0,2	-	-	-
Ra-228	Inhalation	M	0,3µm	0,2	3,3E-06	7,1E-05	Knochenoberfl.
Ra-228	Inhalation	M	1µm	0,2	2,6E-06	5,6E-05	Knochenoberfl.
Ra-228	Inhalation	M	5µm	0,2	1,7E-06	3,6E-05	Knochenoberfl.
Ra-228	Inhalation	M	10µm	0,2	9,8E-07	2,2E-05	Knochenoberfl.
Ra-228	Ingestion	-	-	0,2	6,7E-07	2,2E-05	Knochenoberfl.
Ra-228	Wunde	-	-	-	-	-	-
Th-228	Inhalation	M	0,3µm	0,0005	3,6E-05	4,9E-04	Knochenoberfl.
Th-228	Inhalation	M	1µm	0,0005	3,0E-05	4,0E-04	Knochenoberfl.
Th-228	Inhalation	M	5µm	0,0005	2,2E-05	2,8E-04	Knochenoberfl.
Th-228	Inhalation	M	10µm	0,0005	1,2E-05	1,8E-04	Knochenoberfl.
Th-228	Inhalation	S	0,3µm	0,0002	4,5E-05	3,7E-04	Lunge
Th-228	Inhalation	S	1µm	0,0002	3,7E-05	3,0E-04	Lunge
Th-228	Inhalation	S	5µm	0,0002	2,5E-05	2,1E-04	Lunge
Th-228	Inhalation	S	10µm	0,0002	1,8E-05	1,0E-04	Lunge
Th-228	Ingestion	-	-	0,0005	7,2E-08	2,5E-06	Knochenoberfl.
Th-228	Ingestion	-	-	0,0002	3,5E-08	1,0E-06	Knochenoberfl.
Th-228	Wunde	-	-	0,0005	-	-	-
Th-230	Inhalation	M	0,3µm	0,0005	5,1E-05	2,7E-03	Knochenoberfl.
Th-230	Inhalation	M	1µm	0,0005	4,0E-05	2,2E-03	Knochenoberfl.
Th-230	Inhalation	M	5µm	0,0005	2,8E-05	1,5E-03	Knochenoberfl.
Th-230	Inhalation	M	10µm	0,0005	1,7E-05	9,4E-04	Knochenoberfl.
Th-230	Inhalation	S	0,3µm	0,0002	1,8E-05	3,5E-04	Knochenoberfl.
Th-230	Inhalation	S	1µm	0,0002	1,3E-05	2,6E-04	Knochenoberfl.
Th-230	Inhalation	S	5µm	0,0002	7,2E-06	1,4E-04	Knochenoberfl.
Th-230	Inhalation	S	10µm	0,0002	5,2E-06	6,7E-05	Knochenoberfl.
Th-230	Ingestion	-	-	0,0005	2,1E-07	1,2E-05	Knochenoberfl.
Th-230	Ingestion	-	-	0,0002	8,7E-08	4,9E-06	Knochenoberfl.
Th-230	Wunde	-	-	0,0005	7,5E-04	4,2E-02	Knochenoberfl.
Th-232	Inhalation	M	0,3µm	0,0005	5,4E-05	2,6E-03	Knochenoberfl.
Th-232	Inhalation	M	1µm	0,0005	4,2E-05	2,1E-03	Knochenoberfl.
Th-232	Inhalation	M	5µm	0,0005	2,9E-05	1,5E-03	Knochenoberfl.
Th-232	Inhalation	M	10µm	0,0005	1,8E-05	9,1E-04	Knochenoberfl.

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Th-232	Inhalation	S	0,3µm	0,0002	3,2E-05	2,1E-04	Lunge
Th-232	Inhalation	S	1µm	0,0002	2,3E-05	1,5E-04	Lunge
Th-232	Inhalation	S	5µm	0,0002	1,2E-05	7,7E-05	Lunge
Th-232	Inhalation	S	10µm	0,0002	8,1E-06	3,5E-05	Lunge
Th-232	Ingestion	-	-	0,0005	2,2E-07	1,2E-05	Knochenoberfl.
Th-232	Ingestion	-	-	0,0002	9,2E-08	4,7E-06	Knochenoberfl.
Th-232	Wunde	-	-	0,0005			
U-233	Inhalation	F	0,3µm	0,02	5,1E-07	9,0E-06	Knochenoberfl.
U-233	Inhalation	F	1µm	0,02	5,7E-07	1,0E-05	Knochenoberfl.
U-233	Inhalation	F	5µm	0,02	6,6E-07	1,2E-05	Knochenoberfl.
U-233	Inhalation	F	10µm	0,02	5,6E-07	9,9E-06	Knochenoberfl.
U-233	Inhalation	M	0,3µm	0,02	4,5E-06	3,5E-05	Lunge
U-233	Inhalation	M	1µm	0,02	3,2E-06	2,5E-05	Lunge
U-233	Inhalation	M	5µm	0,02	2,2E-06	1,7E-05	Lunge
U-233	Inhalation	M	10µm	0,02	1,4E-06	8,4E-06	Lunge
U-233	Inhalation	S	0,3µm	0,002	1,2E-05	1,0E-04	Lunge
U-233	Inhalation	S	1µm	0,002	8,7E-06	7,2E-05	Lunge
U-233	Inhalation	S	5µm	0,002	6,9E-06	4,2E-05	Lunge
U-233	Inhalation	S	10µm	0,002	4,2E-06	2,0E-05	Lunge
U-233	Ingestion	-	-	0,02	5,0E-08	8,3E-07	Knochenoberfl.
U-233	Ingestion	-	-	0,002	8,5E-09	8,3E-08	Knochenoberfl.
U-233	Wunde	-	-	-			
U-234	Inhalation	F	0,3µm	0,02	4,9E-07	8,4E-06	Knochenoberfl.
U-234	Inhalation	F	1µm	0,02	5,5E-07	9,5E-06	Knochenoberfl.
U-234	Inhalation	F	5µm	0,02	6,4E-07	1,1E-05	Knochenoberfl.
U-234	Inhalation	F	10µm	0,02	5,4E-07	9,3E-06	Knochenoberfl.
U-234	Inhalation	M	0,3µm	0,02	4,4E-06	3,5E-05	Lunge
U-234	Inhalation	M	1µm	0,02	3,1E-06	2,4E-05	Lunge
U-234	Inhalation	M	5µm	0,02	2,1E-06	1,6E-05	Lunge
U-234	Inhalation	M	10µm	0,02	1,4E-06	8,2E-06	Lunge
U-234	Inhalation	S	0,3µm	0,002	1,2E-05	9,9E-05	Lunge
U-234	Inhalation	S	1µm	0,002	8,5E-06	7,1E-05	Lunge
U-234	Inhalation	S	5µm	0,002	6,8E-06	4,1E-05	Lunge
U-234	Inhalation	S	10µm	0,002	4,1E-06	1,9E-05	Lunge
U-234	Ingestion	-	-	0,02	4,9E-08	7,8E-07	Knochenoberfl.
U-234	Ingestion	-	-	0,002	8,3E-09	7,8E-08	Knochenoberfl.
U-234	Wunde	-	-	-			
U-235	Inhalation	F	0,3µm	0,02	4,6E-07	8,0E-06	Knochenoberfl.
U-235	Inhalation	F	1µm	0,02	5,1E-07	9,0E-06	Knochenoberfl.
U-235	Inhalation	F	5µm	0,02	6,0E-07	1,1E-05	Knochenoberfl.
U-235	Inhalation	F	10µm	0,02	5,0E-07	8,8E-06	Knochenoberfl.
U-235	Inhalation	M	0,3µm	0,02	4,0E-06	3,1E-05	Lunge
U-235	Inhalation	M	1µm	0,02	2,8E-06	2,2E-05	Lunge
U-235	Inhalation	M	5µm	0,02	1,8E-06	1,4E-05	Lunge
U-235	Inhalation	M	10µm	0,02	1,2E-06	7,0E-06	Lunge
U-235	Inhalation	S	0,3µm	0,002	1,1E-05	9,1E-05	Lunge
U-235	Inhalation	S	1µm	0,002	7,7E-06	6,4E-05	Lunge
U-235	Inhalation	S	5µm	0,002	6,1E-06	3,6E-05	Lunge
U-235	Inhalation	S	10µm	0,002	3,7E-06	1,7E-05	Lunge
U-235	Ingestion	-	-	0,02	4,6E-08	7,4E-07	Knochenoberfl.
U-235	Ingestion	-	-	0,002	8,3E-09	7,4E-08	Knochenoberfl.
U-235	Wunde	-	-	-			
U-238	Inhalation	F	0,3µm	0,02	4,4E-07	7,7E-06	Knochenoberfl.

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
U-238	Inhalation	F	1µm	0,02	4,9E-07	8,6E-06	Knochenoberfl.
U-238	Inhalation	F	5µm	0,02	5,8E-07	1,0E-05	Knochenoberfl.
U-238	Inhalation	F	10µm	0,02	4,8E-07	8,4E-06	Knochenoberfl.
U-238	Inhalation	M	0,3µm	0,02	3,8E-06	2,9E-05	Lunge
U-238	Inhalation	M	1µm	0,02	2,6E-06	2,0E-05	Lunge
U-238	Inhalation	M	5µm	0,02	1,6E-06	1,3E-05	Lunge
U-238	Inhalation	M	10µm	0,02	1,1E-06	6,3E-06	Lunge
U-238	Inhalation	S	0,3µm	0,002	1,0E-05	8,6E-05	Lunge
U-238	Inhalation	S	1µm	0,002	7,3E-06	6,0E-05	Lunge
U-238	Inhalation	S	5µm	0,002	5,7E-06	3,4E-05	Lunge
U-238	Inhalation	S	10µm	0,002	3,5E-06	1,6E-05	Lunge
U-238	Ingestion	-	-	0,02	4,4E-08	7,1E-07	Knochenoberfl.
U-238	Ingestion	-	-	0,002	7,6E-09	7,1E-08	Knochenoberfl.
U-238	Wunde	-	-	-	-	-	-
Np-237	Inhalation	M	0,3µm	0,0005	2,7E-05	1,2E-03	Knochenoberfl.
Np-237	Inhalation	M	1µm	0,0005	2,1E-05	9,7E-04	Knochenoberfl.
Np-237	Inhalation	M	5µm	0,0005	1,5E-05	6,7E-04	Knochenoberfl.
Np-237	Inhalation	M	10µm	0,0005	8,9E-06	4,2E-04	Knochenoberfl.
Np-237	Ingestion	-	-	0,0005	1,1E-07	5,4E-06	Knochenoberfl.
Np-237	Wunde	-	-	0,0005	2,1E-04	1,1E-02	Knochenoberfl.
Np-239	Inhalation	M	0,3µm	0,0005	7,8E-10	5,9E-09	Lunge
Np-239	Inhalation	M	1µm	0,0005	9,0E-10	5,9E-09	Lunge
Np-239	Inhalation	M	5µm	0,0005	1,1E-09	5,1E-09	Lunge
Np-239	Inhalation	M	10µm	0,0005	7,8E-10	2,7E-09	Lunge
Np-239	Ingestion	-	-	0,0005	8,0E-10	6,0E-09	Dickdarm
Np-239	Wunde	-	-	0,0005	3,9E-10	1,1E-08	Knochenoberfl.
Pu-238	Inhalation	M	0,3µm	0,0005	5,4E-05	1,6E-03	Knochenoberfl.
Pu-238	Inhalation	M	1µm	0,0005	4,3E-05	1,3E-03	Knochenoberfl.
Pu-238	Inhalation	M	5µm	0,0005	3,0E-05	9,1E-04	Knochenoberfl.
Pu-238	Inhalation	M	10µm	0,0005	1,8E-05	5,7E-04	Knochenoberfl.
Pu-238	Inhalation	S	0,3µm	0,00001	2,0E-05	1,1E-04	Lunge
Pu-238	Inhalation	S	1µm	0,00001	1,5E-05	8,5E-05	Lunge
Pu-238	Inhalation	S	5µm	0,00001	1,1E-05	5,1E-05	Lunge
Pu-238	Inhalation	S	10µm	0,00001	6,0E-06	2,5E-05	Lunge
Pu-238	Ingestion	-	-	0,0005	2,3E-07	7,4E-06	Knochenoberfl.
Pu-238	Ingestion	-	-	0,00001	8,8E-09	1,5E-07	Knochenoberfl.
Pu-238	Ingestion	-	-	0,0001	4,9E-08	1,5E-06	Knochenoberfl.
Pu-238	Wunde	-	-	0,0005	4,5E-04	1,5E-02	Knochenoberfl.
Pu-239	Inhalation	M	0,3µm	0,0005	5,9E-05	1,8E-03	Knochenoberfl.
Pu-239	Inhalation	M	1µm	0,0005	4,7E-05	1,5E-03	Knochenoberfl.
Pu-239	Inhalation	M	5µm	0,0005	3,2E-05	1,0E-03	Knochenoberfl.
Pu-239	Inhalation	M	10µm	0,0005	2,0E-05	6,3E-04	Knochenoberfl.
Pu-239	Inhalation	S	0,3µm	0,00001	2,0E-05	2,4E-04	Knochenoberfl.
Pu-239	Inhalation	S	1µm	0,00001	1,5E-05	1,7E-04	Knochenoberfl.
Pu-239	Inhalation	S	5µm	0,00001	8,3E-06	4,7E-05	Lunge
Pu-239	Inhalation	S	10µm	0,00001	5,9E-06	4,4E-05	Knochenoberfl.
Pu-239	Ingestion	-	-	0,0005	2,5E-07	8,2E-06	Knochenoberfl.
Pu-239	Ingestion	-	-	0,00001	9,0E-09	1,6E-07	Knochenoberfl.
Pu-239	Ingestion	-	-	0,0001	5,3E-08	1,6E-06	Knochenoberfl.
Pu-239	Wunde	-	-	0,0005	5,0E-04	1,7E-02	Knochenoberfl.
Pu-240	Inhalation	M	0,3µm	0,0005	5,9E-05	1,8E-03	Knochenoberfl.
Pu-240	Inhalation	M	1µm	0,0005	4,7E-05	1,5E-03	Knochenoberfl.

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Pu-240	Inhalation	M	5µm	0,0005	3,2E-05	1,0E-03	Knochenoberfl.
Pu-240	Inhalation	M	10µm	0,0005	2,0E-05	6,3E-04	Knochenoberfl.
Pu-240	Inhalation	S	0,3µm	0,00001	2,0E-05	2,4E-04	Knochenoberfl.
Pu-240	Inhalation	S	1µm	0,00001	1,5E-05	1,7E-04	Knochenoberfl.
Pu-240	Inhalation	S	5µm	0,00001	8,3E-06	4,7E-05	Lunge
Pu-240	Inhalation	S	10µm	0,00001	5,9E-06	4,4E-05	Knochenoberfl.
Pu-240	Ingestion	-	-	0,0005	2,5E-07	8,2E-06	Knochenoberfl.
Pu-240	Ingestion	-	-	0,00001	9,0E-09	1,6E-07	Knochenoberfl.
Pu-240	Ingestion	-	-	0,0001	5,3E-08	1,6E-06	Knochenoberfl.
Pu-240	Wunde	-	-	0,0005	5,0E-04	1,7E-02	Knochenoberfl.
Pu-241	Inhalation	M	0,3µm	0,0005	1,1E-06	3,7E-05	Knochenoberfl.
Pu-241	Inhalation	M	1µm	0,0005	8,5E-07	2,9E-05	Knochenoberfl.
Pu-241	Inhalation	M	5µm	0,0005	5,8E-07	2,0E-05	Knochenoberfl.
Pu-241	Inhalation	M	10µm	0,0005	3,6E-07	1,3E-05	Knochenoberfl.
Pu-241	Inhalation	S	0,3µm	0,00001	2,2E-07	5,2E-06	Knochenoberfl.
Pu-241	Inhalation	S	1µm	0,00001	1,6E-07	3,8E-06	Knochenoberfl.
Pu-241	Inhalation	S	5µm	0,00001	8,4E-08	2,0E-06	Knochenoberfl.
Pu-241	Inhalation	S	10µm	0,00001	4,0E-08	9,7E-07	Knochenoberfl.
Pu-241	Ingestion	-	-	0,0005	4,7E-09	1,6E-07	Knochenoberfl.
Pu-241	Ingestion	-	-	0,00001	1,1E-10	3,3E-09	Knochenoberfl.
Pu-241	Ingestion	-	-	0,0001	9,6E-10	3,3E-08	Knochenoberfl.
Pu-241	Wunde	-	-	0,0005	9,5E-06	3,3E-04	Knochenoberfl.
Pu-242	Inhalation	M	0,3µm	0,0005	5,6E-05	1,7E-03	Knochenoberfl.
Pu-242	Inhalation	M	1µm	0,0005	4,4E-05	1,4E-03	Knochenoberfl.
Pu-242	Inhalation	M	5µm	0,0005	3,1E-05	9,6E-04	Knochenoberfl.
Pu-242	Inhalation	M	10µm	0,0005	1,9E-05	6,0E-04	Knochenoberfl.
Pu-242	Inhalation	S	0,3µm	0,00001	1,9E-05	2,2E-04	Knochenoberfl.
Pu-242	Inhalation	S	1µm	0,00001	1,4E-05	1,6E-04	Knochenoberfl.
Pu-242	Inhalation	S	5µm	0,00001	7,7E-06	8,6E-05	Knochenoberfl.
Pu-242	Inhalation	S	10µm	0,00001	5,5E-06	4,2E-05	Knochenoberfl.
Pu-242	Ingestion	-	-	0,0005	2,4E-07	7,8E-06	Knochenoberfl.
Pu-242	Ingestion	-	-	0,00001	8,6E-09	1,6E-07	Knochenoberfl.
Pu-242	Ingestion	-	-	0,0001	5,0E-08	1,6E-06	Knochenoberfl.
Pu-242	Wunde	-	-	0,0005	4,7E-04	1,6E-02	Knochenoberfl.
Am-241	Inhalation	M	0,3µm	0,0005	4,9E-05	2,0E-03	Knochenoberfl.
Am-241	Inhalation	M	1µm	0,0005	3,9E-05	1,6E-03	Knochenoberfl.
Am-241	Inhalation	M	5µm	0,0005	2,7E-05	1,1E-03	Knochenoberfl.
Am-241	Inhalation	M	10µm	0,0005	1,7E-05	7,0E-04	Knochenoberfl.
Am-241	Ingestion	-	-	0,0005	2,0E-07	9,0E-06	Knochenoberfl.
Am-241	Wunde	-	-	0,0005	4,0E-04	1,8E-02	Knochenoberfl.
Am-243	Inhalation	M	0,3µm	0,0005	4,9E-05	2,0E-03	Knochenoberfl.
Am-243	Inhalation	M	1µm	0,0005	3,9E-05	1,6E-03	Knochenoberfl.
Am-243	Inhalation	M	5µm	0,0005	2,7E-05	1,1E-03	Knochenoberfl.
Am-243	Inhalation	M	10µm	0,0005	1,6E-05	6,9E-04	Knochenoberfl.
Am-243	Ingestion	-	-	0,0005	2,0E-07	9,0E-06	Knochenoberfl.
Am-243	Wunde	-	-	0,0005	4,0E-04	1,8E-02	Knochenoberfl.
Cm-242	Inhalation	M	0,3µm	0,0005	5,7E-06	3,9E-05	Lunge
Cm-242	Inhalation	M	1µm	0,0005	4,8E-06	3,2E-05	Lunge
Cm-242	Inhalation	M	5µm	0,0005	3,7E-06	2,5E-05	Lunge
Cm-242	Inhalation	M	10µm	0,0005	2,0E-06	1,3E-05	Lunge
Cm-242	Ingestion	-	-	0,0005	1,2E-08	1,9E-07	Knochenoberfl.
Cm-242	Wunde	-	-	0,0005	1,4E-05	3,8E-04	Knochenoberfl.

Nuklid	Zufuhrpfad	Absorptions- klasse	AMAD	f1-Wert	effektive Dosis (Sv/Bq)	Teilkörper- dosis (Sv/Bq)	Organ
Cm-243	Inhalation	M	0,3µm	0,0005	3,7E-05	1,4E-03	Knochenoberfl.
Cm-243	Inhalation	M	1µm	0,0005	2,9E-05	1,1E-03	Knochenoberfl.
Cm-243	Inhalation	M	5µm	0,0005	2,0E-05	7,5E-04	Knochenoberfl.
Cm-243	Inhalation	M	10µm	0,0005	1,3E-05	4,7E-04	Knochenoberfl.
Cm-243	Ingestion	-	-	0,0005	1,5E-07	6,2E-06	Knochenoberfl.
Cm-243	Wunde	-	-	0,0005	2,9E-04	1,3E-02	Knochenoberfl.
Cm-244	Inhalation	M	0,3µm	0,0005	3,1E-05	1,1E-03	Knochenoberfl.
Cm-244	Inhalation	M	1µm	0,0005	2,5E-05	8,7E-04	Knochenoberfl.
Cm-244	Inhalation	M	5µm	0,0005	1,7E-05	6,0E-04	Knochenoberfl.
Cm-244	Inhalation	M	10µm	0,0005	1,1E-05	3,8E-04	Knochenoberfl.
Cm-244	Ingestion	-	-	0,0005	1,2E-07	4,9E-06	Knochenoberfl.
Cm-244	Wunde	-	-	0,0005	2,4E-04	10,0E-03	Knochenoberfl.
Cm-246	Inhalation	M	0,3µm	0,0005	5,0E-05	2,1E-03	Knochenoberfl.
Cm-246	Inhalation	M	1µm	0,0005	4,0E-05	1,6E-03	Knochenoberfl.
Cm-246	Inhalation	M	5µm	0,0005	2,7E-05	1,1E-03	Knochenoberfl.
Cm-246	Inhalation	M	10µm	0,0005	1,7E-05	7,1E-04	Knochenoberfl.
Cm-246	Ingestion	-	-	0,0005	2,1E-07	9,2E-06	Knochenoberfl.
Cm-246	Wunde	-	-	0,0005	4,1E-04	1,9E-02	Knochenoberfl.
Cm-248	Inhalation	M	0,3µm	0,0005	1,8E-04	7,5E-03	Knochenoberfl.
Cm-248	Inhalation	M	1µm	0,0005	1,4E-04	6,0E-03	Knochenoberfl.
Cm-248	Inhalation	M	5µm	0,0005	9,5E-05	4,1E-03	Knochenoberfl.
Cm-248	Inhalation	M	10µm	0,0005	5,9E-05	2,6E-03	Knochenoberfl.
Cm-248	Ingestion	-	-	0,0005	7,7E-07	3,4E-05	Knochenoberfl.
Cm-248	Wunde	-	-	0,0005	1,5E-03	6,8E-02	Knochenoberfl.