

Tabella A3-2 - Elaborazione per calcolo Csoglia

Parametro	CAS NUM	Chronic Inhalation Reference Concentration (mg/m3)	Chronic Inhalation Reference Concentration Reference	Inhalation Unit Risk (microg/m3)	Inhalation Unit Risk Reference
Tetraclorometano	56-23-5	0,1	IRIS	0,000006	IRIS
Trichlorofluoromethane	75-69-4	0,7	HEAST		
Dichlorodifluoromethane	75-71-8	0,1	PPRTV Current		
Trimethylbenzene, 1,2,4-	95-63-6	0,06	IRIS		
Trimethylbenzene, 1,3,5-	108-67-8	0,06	IRIS		
Ethyl Chloride	75-00-3	10	IRIS		
Bromomethane	74-83-9	0,005	IRIS		

$$C_{soglia} = \frac{TR_{canc}}{\alpha_c \cdot EM_{canc} \cdot IUR \cdot 10^3}$$

(1) sostanze cancerogene

Alfa: 0,1

$$C_{soglia} = \frac{THI \cdot RfC}{\alpha_c \cdot EM_{non\,canc}}$$

(2) sostanze non cancerogene

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Parametro	CAS NUM	Residenziale					
		Csoglia Non Canc Indoor (mg/m3)	Csoglia Non Canc Outdoor (mg/m3)	Csoglia Canc Indoor (mg/m3)	Csoglia Canc Outdoor (mg/m3)	Csoglia Residenziale Indoor (mg/m3)	Csoglia Residenziale outdoor (mg/m3)
Tetraclorometano	56-23-5	1,117	13,173	0,004	0,093	4,30E-03	9,33E-02
Trichlorofluoromethane	75-69-4	7,821	92,211	-	-	7,82E+00	9,22E+01
Dichlorodifluoromethane	75-71-8	1,117	13,173	-	-	1,12E+00	1,32E+01
Trimethylbenzene, 1,2,4-	95-63-6	0,670	7,904	-	-	6,70E-01	7,90E+00
Trimethylbenzene, 1,3,5-	108-67-8	0,670	7,904	-	-	6,70E-01	7,90E+00
Ethyl Chloride	75-00-3	111,735	1317,293	-	-	1,12E+02	1,32E+03
Bromomethane	74-83-9	0,056	0,659	-	-	5,59E-02	6,59E-01

$$C_{soglia} = \frac{TR_{canc}}{\alpha_c \cdot EM_{canc} \cdot IUR \cdot 10^3}$$
$$C_{soglia} = \frac{THI \cdot RfC}{\alpha_c \cdot EM_{non\,canc}}$$

Età	EM Non canc		EM Canc	
	RESIDENZIALE		RESIDENZIALE	
Indoor	Indoor	Outdoor	indoor	0,3874
0-6	0,7911	0,0280	outdoor	0,0179
7-16	0,7831	0,0200		
17-65	0,7192	0,0360		
>65	0,8950	0,0759		

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Trimethylbenzene, 1,2,4-	95-63-6
Trimethylbenzene, 1,3,5-	108-67-8
Ethyl Chloride	75-00-3
Bromomethane	74-83-9

Ricreativo					
Csoglia Non Canc Indoor (mg/m3)	Csoglia Non Canc Outdoor (mg/m3)	Csoglia Canc Indoor (mg/m3)	Csoglia Canc Outdoor (mg/m3)	Csoglia Ricreativo Indoor (mg/m3)	Csoglia Ricreativo outdoor (mg/m3)
-	27,810	-	0,111	-	1,11E-01
-	194,667	-	-	-	1,95E+02
-	27,810	-	-	-	2,78E+01
-	16,686	-	-	-	1,67E+01
-	16,686	-	-	-	1,67E+01
-	2780,952	-	-	-	2,78E+03
-	1,390	-	-	-	1,39E+00

$$C_{soglia} = \frac{TR_{canc}}{\alpha_c \cdot EM_{canc} \cdot IUR \cdot 10^3}$$

$$C_{soglia} = \frac{THI \cdot RfC}{\alpha_c \cdot EM_{non\,canc}}$$

Età	EM Non canc		EM Canc	
	RICREATIVO		RICREATIVO	
Indoor	Indoor	Outdoor	indoor	-
0-6	-	0,0200	outdoor	0,0150
7-16	-	0,0360		
17-65	-	0,0320		
>65	-	0,0240		

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Bromomethane	74-83-9

$$C_{soglia} = \frac{TR_{canc}}{\alpha_c \cdot EM_{canc} \cdot IUR \cdot 10^3}$$
$$C_{soglia} = \frac{THI \cdot RfC}{\alpha_c \cdot EM_{non\,canc}}$$

Commerciale					
Csoglia Non Canc Indoor (mg/m3)	Csoglia Non Canc Outdoor (mg/m3)	Csoglia Canc Indoor (mg/m3)	Csoglia Canc Outdoor (mg/m3)	Csoglia Commerciale Indoor (mg/m3)	Csoglia Commerciale outdoor (mg/m3)
4,38	4,38	0,0204	0,0204	2,04E-02	2,04E-02
30,66	30,66			3,07E+01	3,07E+01
4,38	4,38			4,38E+00	4,38E+00
2,628	2,628			2,63E+00	2,63E+00
2,628	2,628			2,63E+00	2,63E+00
438	438			4,38E+02	4,38E+02
0,219	0,219			2,19E-01	2,19E-01

EM Non canc		EM Canc	
Commerciale		Commerciale	
indoor	0,228310502	indoor	0,081539465
outdoor	0,228310502	outdoor	0,081539465