

## INATTIVAZIONE DI VIRUS CON OZONO

Organismo	% di riduzione	Tempo (min.)	Concentrazione (mg/l)	pH	Temp. (°C)	Mezzo di trasporto	Tipo di reazione	Commenti	Referenze
Escherichia Coli	99,99	1,67	0,23 – 0,26	7	24	Ozone demand free water	Completely mixed continuous flow-through		Farooq and Akhlaque (1983)
Legionella Pneumophila E221ADP	99,997	20	0,32	7	24	Sterile distilled water	Batch		Edelstein et al. (1982)
Legionella Pneumophila E102A3EP	99,999	20	0,32	7	24	Sterile distilled water	Batch		Edelstein et al. (1982)
Mycobacterium Fortuitum	90	1,67	0,23 – 0,26	7	24	Ozone demand free water	Completely mixed continuous flow-through		Farooq and Akhlaque (1983)
Salmonella Typhimurium	99,995	1,87	0,23 – 0,26	7	24	Ozone demand free water	Completely mixed continuous flow-through		Farooq and Akhlaque (1983)
Escherichia Coli	99,9	19	Init. 2,2 Res. 0,08	7,5	18	Raw wastewater	Continuous flow-through	TSS 85 mg/l COD 100 mg/l	Joret et al. (1982)
Fecal Streptococcus	99,6	19	Init. 2,2 Res. 0,08	7,5	16	Raw wastewater	Continuous flow-through	TSS 85 mg/l COD 100 mg/l	Joret et al. (1982)
Escherichia Coli	99,998	0,16	0,51	7	20	Water	Continuous flow-through		Boyce et al. (1981)
Escherichia Coli	99	0,33	0,085	7,2	1	Water	Batch		Katzenelson et al. (1974)
Poliovirus type 1 (Mahoney)	99,7	1,67	0,23 – 0,26	7	24	Ozone demand free water	Completely mixed continuous flow-through		Farooq and Akhlaque (1983)

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Poliovirus type 1 (Mahoney)	90	0,75	0,32	4,3	N.R.	Water	Completely mixed continuous flow-through		Roy et al.
Coxsackie-Virus B5	99,99	2,6	0,4	7,2	20	Activated sludge reactor effluent	Batch	TSS 12,5 mg/l NH3 1,55 mg/l BOD3 10,6 mg/l COD 37,2 mg/l	Harakeh and Butle (1985)
Poliovirus Type 1	99	20	0,2	7,2	20	Activated sludge reactor effluent	Batch	TSS 12,5 mg/l NH3 1,55 mg/l BOD3 10,6 mg/l COD 37,2 mg/l	Harakeh and Butle (1985)
Poliovirus Type 1	99	0,25	0,5	7	24	N.R.	N.R.		Drinking Water and Health (1980)
Enterie Virus	>98	19	Init.4,10 Res.0,08	7,8	18	Raw wastewater	Continuous flow-through	TSS 103 mg/l COD 231 mg/l	Joret et al.(1982)
Echo Virus Type 1	99	10	0,26	7,2	20	Activated sludge effluent	Batch	TSS 12,5 mg/l NH3 1,55 mg/l BOD3 10,6 mg/l COD 37,2 mg/l	Harakeh and Butle (1985)
Bacteriophage f2	80	10	0,1	7,2	20	Activated sludge effluent	Batch	TSS 12,5 mg/l NH3 1,55 mg/l BOD3 10,6 mg/l COD 37,2 mg/l	Harakeh and Butle (1985)
Human Rotavirus	80	10	0,31	7,2	20	Activated sludge effluent	Batch	TSS 12,5 mg/l NH3 1,55 mg/l BOD3 10,6 mg/l COD 37,2 mg/l	Harakeh and Butle (1985)

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Poliovirus Type 1 Sabin	>97	0,16	0,21	7	20	Water	Continuous flow-through	5TU.bentonit	Boyce et al.
Coxackie A9	>96	0,16	0,035	7	20	Water	Continuous flow-through	5TU.bentonit	Boyce et al.
Bacteriophage f2	> 99,995	0,1	0,41	7	20	Water	Continuous flow-through	5TU.bentonit	Boyce et al.

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