

7. REGULATIONS AND ADVISORIES

Because of its potential to cause adverse health effects in exposed people, a number of regulations and guidelines have been established for nitrobenzene by various international, national and state agencies. These values are summarized in Table 7-1.

7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to Nitrobenzene

Agency	Description	Value ^a	Reference
<u>National</u>			
Regulations:			
a. Air:			
OSHA	PEL TWA	1 ppm (5 mg/m ³)	OSHA 1989, (29 CFR 1910.1000) Table Z-1-A
b. Water:			
EPA OWRS	General permits under NPDES	NA	40 CFR 122, Appendix D, Table II
	General pretreatment regulations for existing and new sources of pollution	NA	40 CFR 403
c. Nonspecific media:			
EPA OERR	Reportable quantity	1000 lb	EPA 1985b, (40 CFR 302.4)
	Extremely hazardous substance threshold planning quantity	10,000 lb	EPA 1987a, (40 CFR 355)
EPA OSW	Hazardous waste constituent (Appendix VIII)	NA	EPA 1980b, (40 CFR 261)
	Land disposal restrictions	NA	EPA 1988a, 1989 (40 CFR 268)
	Groundwater monitoring list (Appendix IX)	NA	EPA 1987b, (40 CFR 264)
EPA OTS	Preliminary assessment information rule	NA	EPA 1982c, (40 CFR 712.30)
	Health and safety data reporting rule	NA	EPA 1988b, (40 CFR 716.120)
	Toxic chemical release reporting	NA	EPA 1988c, (40 CFR 372)
Guidelines:			
a. Air:			
ACGIH	TLV TWA	1 ppm	ACGIH 1986 (5 mg/m ³)
NIOSH	IDLH	200 ppm	NIOSH 1985
b. Water:			
EPA OWRS	Ambient water quality criteria Ingesting water and organisms Oral RfD	19.8 mg/L 0.0005 mg/kg/day	EPA 1980b IRIS 1989
Other:			
EPA	Carcinogenic classification	Group D ^b	EPA 1988c

7. REGULATIONS AND ADVISORIES

TABLE 7-1 (Continued)

Agency	Description	Value	Reference
<u>State</u>			
Regulations:			
a. Air:	Acceptable ambient air concentration		NATICH 1988
Connecticut		100 $\mu\text{g}/\text{m}^3$ (8 hr)	
Massachusetts		6.80 $\mu\text{g}/\text{m}^3$ (24 hr)	
Nevada		0.1190 mg/m^3 (8 hr)	
New York		16.70 $\mu\text{g}/\text{m}^3$ (1 yr)	
North Carolina		25.0 $\mu\text{g}/\text{m}^3$ (24 hr)	
North Dakota		0.05 mg/m^3 (8 hr)	
South Carolina		25.0 $\mu\text{g}/\text{m}^3$ (24 hr)	
Virginia		80.0 $\mu\text{g}/\text{m}^3$ (24 hr)	
b. Water:	Drinking water		FSTRAC 1988
Kansas		5 $\mu\text{g}/\text{L}$	
Maine		1.4 $\mu\text{g}/\text{L}$	

- ^a Numerical values are provided in this column, when available. However, many regulations list chemicals and/or involve requirements too complex for inclusion here. In these cases, NA (Not Applicable) is inserted in this column. The cited references provide details of the regulations.
- ^b Group D: Not classifiable as to human carcinogenicity.

OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; TWA = Time-Weighted Average; EPA = Environmental Protection Agency; OWRS = Office of Water Regulations and Standards; NPDES = National Pollutant Discharge Elimination System; NA = Not Applicable; OERR = Office of Emergency and Remedial Response; OSW = Office of Solid Wastes; OTS = Office of Toxic Substances; ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; NIOSH = National Institute for Occupational Safety and Health; IDLH = Immediately Dangerous to Life or Health Level.

