

## NUMERICAL DETECTOR TUBE LIST

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Tube #	Description	Tube #	Description
100	Carbon monoxide, 5-1000 ppm	111U(5)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Cyclohexene
101S	Acetylene, 50-1000 ppm	111U(6)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Decahydronaphthalene
102SA	Acetone, 0.1-5.0%; Tetrahydrofuran	111U(7)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; n-Decane
102SC	Acetone, 0.01-4.0%	111U(8)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Diethyl benzene
102SD	Acetone, 20-5000 ppm	111U(8)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Ethyl methacrylate
103SA	Sulphur dioxide, 0.1-3.0%	111U(9)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Isopropyl ether
103SB	Sulphur dioxide, 0.02-0.3%	112SA	Hydrogen cyanide, 0.01-3.0%
103SC	Sulphur dioxide, 20-300 ppm	112SB	Hydrogen cyanide, 0.5-100 ppm
103SD	Sulphur dioxide, 1-60 ppm	112SC	Hydrogen cyanide, 0.3-8 ppm
103SE	Sulphur dioxide, 0.25-10 ppm	113SA	n-Hexane, 0.05-1.32%
103SF	Sulphur dioxide, 0.02-0.3%	113SB	n-Hexane, 50-1400 ppm; Heptane, Isobutane, Isobutylene, Methyl cyclohexane, Pentane, more
103SG	Sulphur dioxide in Carbon dioxide, 0.1-25 ppm	113SC	n-Hexane, 5-800 ppm
104SA	Ethyl alcohol, 0.05-5.0%	114	Bromine, 1-20 ppm
105SA	Ammonia, 0.5-10%	115S	Cyclohexane, 0.01-0.6%
105SB	Ammonia, 50-900 ppm	116	Chlorine dioxide, 1-20 ppm
105SC	Ammonia, 5-260 ppm	117SA	Nitrogen dioxide, 20-1000 ppm
105SD	Ammonia, 0.2-20 ppm; n-Methyl aniline, Morpholine, Pyridine, o-Toluidine, p-Toluidine, more	117SB	Nitrogen dioxide, 0.5-30.0 ppm
105SE	Ammonia, 1-200 ppm	117SD	Nitrogen dioxide, 0.1-1.0 ppm
105SH	Ammonia, 0.5-30%	118SB	Benzene, 5-200 ppm
105SM	Ammonia, 0.1-1.0%	118SC	Benzene, 1-100 ppm
106B	Carbon monoxide, 10-1000 ppm	118SD	Benzene, 0.1-75 ppm
106C	Carbon monoxide, 10-1000 ppm	118SE	Benzene, 0.2-80 ppm
106S	Carbon monoxide, 10-250 ppm	119SA	Methyl alcohol, 0.05-6.0%
106SA	Carbon monoxide, 5-2000 ppm	119U	Methyl alcohol, 20-1000 ppm; Dioxane
106SC	Carbon monoxide, 1-50 ppm	120GR	Hydrogen Sulphide, 0.025-0.4 gr/100 cf
106SH	Carbon monoxide, 0.1-2.0%	120GT	Hydrogen sulphide, 0.25-4 gr/100 cf
106SS	Carbon monoxide, 30-500 ppm	120SB	Hydrogen sulphide, 0.75-300 ppm
106UH	Carbon monoxide, 0.1-20%	120SC	Hydrogen sulphide, 0.005-0.16%
107SA	Diethyl ether, 0.04-1.4%	120SD	Hydrogen sulphide, 1-60 ppm
107U	Diethyl ether, 20-400 ppm	120SE	Hydrogen sulphide, 0.5-40 ppm
108B	Ethylene, 0.1-100 ppm	120SF	Hydrogen sulphide, 25-2000 ppm
108SA	Ethylene, 20-1200 ppm	120SH	Hydrogen sulphide, 0.1-4.0%
109SA	Chlorine, 1-40 ppm	120SM	Hydrogen sulphide, 0.05-1.2%
109SB	Chlorine, 0.1-10.0 ppm	120U	Hydrogen sulphide, 0.2-6.0 ppm
109U	Chlorine, 0.05-2 ppm	120UH	Hydrogen sulphide, 2-20%
110S	Gasoline, 0.05-0.6%	120UT	Hydrogen sulphide, 2.5-40%
111SA	Ethyl acetate, 0.1-5.0%; Methyl acetate	121SA	Phosphine in acetylene, 20-800 ppm
111U	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; 1,2,4-Trimethyl benzene	121SB	Phosphine in acetylene, 5-90 ppm
111U(1)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Butyl ether	121SC	Phosphine, 20-1400 ppm
111U(10)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Methyl isothiocyanate	121SD	Phosphine, 0.25-20.0 ppm
111U(11)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Mineral turpentine	121SH	Phosphine, 100-3200 ppm
111U(12)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; n-Nonane	121SS	Phosphine for fumigation, 200-6000 ppm
111U(2)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Butyl methacrylate	121U	Arsine, Phosphine, 0.05-2.0 ppm
111U(3)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; tert-Butyl methyl ether	122SA	Ethylene oxide, 0.01-4.0%; Furan, Isopropyl alcohol, Methyl ethyl ketone, Methyl isobutyl ketone
111U(4)	Ethyl acetate, Isopropyl acetate, 10-1000 ppm; Cumene	122SC	Ethylene oxide, 1-15 ppm
		122SC(1)	Ethylene oxide, 1-15 ppm; Propylene oxide

## NUMERICAL DETECTOR TUBE LIST *CONTINUED*

Tube #	Description	Tube #	Description
122SC(2)	Ethylene oxide, 1-15 ppm; Propylene glycol	142S	Mercury vapor, 0.1-10 mg/m <sup>3</sup>
122SD	Ethylene oxide, 0.1-14.0 ppm	143SA	Xylene, 5-1000 ppm
122SL	Ethylene oxide, 50-2600 ppm	143SB	Xylene, 5-200 ppm
122SM	Ethylene oxide, 5-100 ppm	145S	1,2-Dichloroethylene, 5-400 ppm
123S	Methyl ether, 0.01-1.2%	146S	Phosgene, 0.1-20 ppm
124SA	Toluene, 10-500 ppm	147S	Carbon tetrachloride, 0.5-60 ppm
124SB	Toluene, 2-100 ppm	150U	Isopropyl alcohol, 20-1200 ppm
124SH	Toluene, 100-3000 ppm	151U	Propyl acetate, 20-1000 ppm
125SA	Propane, 0.02-0.5%	152S	Chloroform, 23-500 ppm
126B	Carbon Dioxide, 0.01-0.7%	153U	Isobutyl acetate, 10-400 ppm; Naphthalene
126SA	Carbon dioxide, 0.1-5.2%	155U	Methyl isobutyl ketone, 5-300 ppm
126SB	Carbon dioxide, 0.05-1.0%	156S	Hydrogen fluoride, 0.17-30 ppm
126SF	Carbon dioxide, 100-4000 ppm	157JS	Methyl bromide, 3-70 g/m <sup>3</sup>
126SG	Carbon dioxide, 0.02-1.4%	157SA	Methyl bromide, 10-500 ppm
126SH	Carbon dioxide, 1-20%	157SB	Methyl bromide, 0.4-80 ppm
126UH	Carbon Dioxide, 5-50%	157SB(1)	Methyl bromide, 0.4-80 ppm; Bromochloromethane
128SA	Acrylonitrile, 0.1-3.5%	157SB(2)	Methyl bromide, 0.4-80 ppm; Bromoform
128SB	Acrylonitrile, 10-500 ppm	157SB(3)	Methyl bromide, 0.4-80 ppm; 1,2-Dichloropropane
128SC	Acrylonitrile, 1-120 ppm	157SB(4)	Methyl bromide, 0.4-80 ppm; Ethyl bromide
128SD	Acrylonitrile, 0.2-20 ppm	158S	Styrene, 2.5-300 ppm
129	Nickel carbonyl, 20-700 ppm	158S(1)	Styrene, 2.5-300 ppm; a-Pinene
130U	Mercaptans, 0.5-10 ppm	158SB	Styrene, 1-100 ppm
131	Inorganic gas qualitative detector tube	159SA	Oxygen, 2-24%
132SA	Vinyl chloride, 0.05-1.0%	159SB	Oxygen, 2-24%
132SB	Vinyl chloride, 5-500 ppm	159SC	Oxygen, 1.5-24%
132SC	Vinyl chloride, 0.1-12.0 ppm	160S	1,1,1-Trichloroethane (Methyl chloroform), 15-400 ppm
132SC(1)	Vinyl chloride, 0.1-12.0 ppm; Allyl chloride	162U	Tetrahydrofuran, 20-400 ppm
132SC(2)	Vinyl chloride, 0.1-12.0 ppm; Benzyl chloride	163SA	Propylene oxide, 0.05-5.0%
132SC(3)	Vinyl chloride, 0.1-12.0 ppm; m-Chlorotoluene	164SA	Methyl mercaptan, 5-140 ppm
132SC(4)	Vinyl chloride, 0.1-12.0 ppm; o-Chlorotoluene	164SH	Methyl mercaptan, 50-1000 ppm
132SC(5)	Vinyl chloride, 0.1-12.0 ppm; p-Chlorotoluene	165SA	Ethyl mercaptan, 1-160 ppm
132SC(6)	Vinyl chloride, 0.1-12.0 ppm; 1,1-Dichloroethylene	165SB	Ethyl mercaptan, 2.5-80 ppm
132SC(7)	Vinyl chloride, 0.1-12.0 ppm; 1,3-Dichloropropane	166S	Ethylene dibromide, 1-50 ppm
132SC(8)	Vinyl chloride, 0.1-12.0 ppm; Trichlorotoluene	167S	Hydrogen selenide, 1-600 ppm
133A	Acetaldehyde, 0.004-1.0%	168SA	Butadiene, 0.03-2.6%
133SB	Acetaldehyde, 5-140 ppm	168SB	Butadiene, 30-600 ppm
134SA	Trichloroethylene, 5-300 ppm	168SC	Butadiene, 2.5-100 ppm
134SB	Trichloroethylene, 0.2-36.8 ppm	168SD	Butadiene, 0.5-10.0 ppm
134SG	Trichloroethylene, 0.05-2.0%	169S	Chloroprene, 0.5-20 ppm
135SA	Tetrachloroethylene, 5-300 ppm	171SA	Formaldehyde, 20-1500 ppm
135SB	Tetrachloroethylene, 0.2-10 ppm	171SB	Formaldehyde, 1-35 ppm
135SG	Tetrachloroethylene, 0.1-2.0%	171SC	Formaldehyde, 0.05-4.0 ppm
135SM	Tetrachloroethylene for process control, 50-1250 ppm	172S	Chloropicrin, 0.05-16.0ppm
136	Acrolein, 0.005-1.8%	173SA	Hydrogen chloride, 20-1200 ppm
137U	Hydrogen, 0.05-0.8%	173SB	Hydrogen chloride, 0.4-40 ppm
138U	Butyl acetate, 10-400 ppm	174A	Nitrogen oxide and dioxide, NO 10-300 ppm; NO <sub>2</sub> 1-40 ppm
139SB	Methyl ethyl ketone, 0.01-1.4%; Butyl acetate, Dioxane, Isobutyl acetate, Isopropyl acetate, more	174B	Nitrogen oxide and dioxide, NO 10-300 ppm; NO <sub>2</sub> 1-40 ppm
139U	Methyl ethyl ketone, 20-1500 ppm	175SA	Nitrogen oxides, 20-250 ppm
140SA	Arsine, 5-160 ppm	175SH	Nitrogen oxides, 100-2500 ppm
141SA	Carbon disulphide, 30-500 ppm	175U	Nitrogen oxides, 0.5-30 ppm
141SB	Carbon disulphide, 0.8-50 ppm	176S	Methyl iodide, 2-40 ppm

## NUMERICAL DETECTOR TUBE LIST CONTINUED

Tube #	Description	Tube #	Description
177SA	Water vapor, 1.7-33.8 mg/L	211U	Butyl acrylate, Methyl acrylate 2-60 ppm; Ethyl acrylate, Isobutyl acrylate
177U	Water vapor, 0.05-2.0 mg/L	213S	Triethyl amine, 1-20
177UL	Water vapor, 3-80 LB/MMCF	214S	o-Dichlorobenzene, 5-100 ppm
177UR	Water vapor, 2-12 LB/MMCF	215S	p-Dichlorobenzene, 10-150 ppm
178SB	Chlorobenzene, 1-140 ppm	216S	Acetic Acid, Formic acid 1-50 ppm; Acetic anhydride, Acrylic acid, Butyric acid, more
179S	Ethyl benzene, 10-500 ppm	219S	Hydrazine, 0.05-10 ppm
180S	Dichloromethane, 10-1000 ppm	219S(1)	Hydrazine, 0.05-10 ppm; Pyridine
181S	Aniline, 1-30 ppm	221SA	n-Butane, 0.05-0.6%
182SA	Ozone, 50-1000 ppm	222S	Diethyl amine, 1-20 ppm
182SB	Ozone, 2.5-100 ppm	222S(1)	Diethyl amine, 1-20 ppm; Isopropyl amine
182U	Ozone, 0.025-3.0 ppm	223S	2,2-Dichloroethyl ether, 2-30 ppm
183U	Cresol, Phenol, 0.5-25.0 ppm	224SA	Monoethanol amine, 0.5-50 ppm
184S	Methyl methacrylate, 10-160 ppm; Allyl alcohol	227S	Methyl amine, 1-20 ppm
185S	Propylene, 50-1000 ppm	229S	N,N-Dimethylacetamide, 5-70 ppm
186	Organic gas checker	230S	1,2-Dichloroethane, 5-50 ppm
186B	Organic gas qualitative detector tube	232SA	Ethylene glycol, 20-250 mg/m <sup>3</sup>
187S	General hydrocarbons, 50-1400 ppm	232SB	Ethylene glycol, 3-40 mg/m <sup>3</sup>
188U	Isopentyl acetate, 10-400 ppm	233S	Nitric acid vapor, 1-20 ppm
189U	2-Butanol, 4-300 ppm	234SA	Free residual chlorine, 0.4-5 ppm
190U	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; 1-Butanol, Butyl cellosolve, Diacetone alcohol, more	235S	1,1-Dichloroethane, 10-160 ppm
190U(1)	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; Crotonaldehyde	236S	1,1,2-Trichloroethane, 10-100 ppm
190U(2)	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; Dicyclopentadiene	236S(1)	1,1,2-Trichloroethane, 10-100 ppm; 1,1,2,2-Tetrachloroethane
190U(3)	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; Isopropyl cellosolve	237S	Vinyl acetate, 5-120 ppm
190U(4)	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; 1-Propanol	237S(1)	Vinyl acetate, 5-120 ppm; Methyl butyl ketone
190U(5)	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; Tetrahydrothiophen	238S	Furfuryl alcohol, 2-25 ppm
190U(6)	Ethyl cellosolve, Methyl cellosolve 5-500 ppm; Benzaldehyde	239S	Carbonyl sulphide, 5-60 ppm
192S	Epichlorohydrine, 5-50 ppm	240S	Silane, 0.5-50 ppm; Disilane
193S	Methyl styrene, 10-500 ppm	242S	Diborane, 0.02-5.0 ppm
194S	1,3-Dichloropropane, 10-500 ppm	243U	Tetraethoxysilane, 5-200 ppm
196S	N,N-Dimethylformamide, 1-30 ppm	244U	Sulphuric acid, 0.5-5 mg/m <sup>3</sup>
197U	Cyclohexanol, 2-100 ppm	247S	Hydrogen peroxide, 0.5-10.0 ppm
197U(1)	Cyclohexanol, 2-100 ppm; Isophorone	280S	Acetylene-Ethylene, C <sub>2</sub> H <sub>2</sub> 20-300 ppm; C <sub>2</sub> H <sub>4</sub> 200-2000 ppm
198U	Methyl cyclohexanone, 2-100 ppm	281S	Oxygen, O <sub>2</sub> 2-10%; CO <sub>2</sub> 1-20%
199U	Methyl cyclohexanol, 5-200 ppm	282S	Hydrogen sulphide-Mercaptans, H <sub>2</sub> S 1-30 ppm; R•SH 0.5-5 ppm
200SA	Sulphide ion, 2-1000 ppm	300	Air flow indicator tube
200SB	Sulphide ion, 0.5-10 ppm	600SP	Carbon monoxide - Breathing air, 5-100 ppm
201SA	Chloride ion, 10-2000 ppm	601SP	Carbon dioxide - Breathing air, 100-3000 ppm
201SB	Chloride ion, 3-200 ppm	602SP	Oil mist - Breathing air, 0.3-5 mg/m <sup>3</sup>
201SC	Chloride ion, 1-60 ppm	603SPA	Water vapor - Breathing air, 20-160 mg/m <sup>3</sup>
203S	Copper ion, 1-100 mg/L	604SP	Oxygen - Breathing air, 2-24%
204S	Cyanide ion, 0.2-5 ppm		
205SL	Salinity, 0.01-0.8%		
206U	Cyclohexanol, 5-500 ppm		
208U	Isobutyl alcohol, 5-100 ppm		
209U	Isopentyl alcohol, 5-100 ppm		
210U	Pentyl acetate, 10-200 ppm		

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