

◎ : Highly Recommended ○ : Recommended

Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
<b>A</b>						
1	Acetaldehyde	75-07-0	◎	○	○	
2	Acetamide	60-35-5				○
3	Acetic acid	64-19-7	◎	○	○	
4	Acetic anhydride	108-24-7	◎	○	○	
5	Acetone	67-64-1	◎	○	○	
6	Acetone cyanohydrin	75-86-5		◎	◎	
7	Acetonitrile	75-05-8	◎	○	○	
8	Acetylene	74-86-2				○
9	Acetyl chloride	75-36-5	◎	○	○	
10	o-Acetylsalicylic acid	50-78-2				○
11	Acrolein	107-02-8	◎	○	○	
12	Acrylamide	79-06-1	◎	○	○	○
13	Acrylic acid	79-10-7	◎	○	○	
14	Acrylonitrile	107-13-1	◎	○	○	
15	Aldrin	309-00-2				○
16	Allyl alcohol	107-18-6	◎	○	○	
17	Allylamine	107-11-9	◎	○	○	
18	Allyl bromide	106-95-6	◎	○	○	
19	Allyl chloride	107-05-1	◎	○	○	
20	Allyl glycidyl ether	106-92-3	◎	○	○	
21	Allyl isocyanate	1476-23-9	◎	○	○	
22	Allyl propyl disulfide	2179-59-1		○	○	
23	Aluminium	7429-90-5				○
24	Aluminium hydroxide	21645-51-2				○
25	Aluminium oxide	1344-28-1				○
26	Aluminium alkyl compounds	—	◎	○	○	
27	p-Aminoazobenzene	60-09-3				○
28	o-Aminoazotoluene	97-56-3				○
29	4-Aminodiphenyl	92-67-1				○
30	3-Amino-9-ethylcarbazole	132-32-1				○
31	2-Aminoethanol	141-43-5	◎	○	○	
32	2-Aminopyridine	504-29-0	◎	○	○	○
33	Amitrole (3-Amino-1,2,4-triazole)	61-82-5				○
34	Ammonia	7664-41-7			○	
35	Ammonium chloride fume	12125-02-9				○
36	Ammonium sulfamate	7773-06-0				○
37	n-Amyl acetate (1-Pentyl acetate)	628-63-7	◎	○	○	
38	sec-Amyl acetate (2-Pentyl acetate)	626-38-0	◎	○	○	
39	Aniline	62-53-3	◎	○	○	
40	Anisidine, o-isomer	90-04-0	◎	○	○	
41	Anisidine, p-isomer	104-94-9				○
42	Anthracene	120-12-7				○
43	Antimony and compounds, as Sb	7440-36-0				○
44	Antimony penta chloride	7647-18-9		○	○	
45	Antimony trioxide, as Sb	1309-64-4				○
46	ANTU (α-Naphthylthiourea)	86-88-4				○
47	p-Aramide, fibrous dust	26125-61-1				○
48	Argon	7440-37-1				○

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		VA1P3	VABE1P3	VA1B2E2K1P3			
49	Arsenic and inorganic compounds (except arsine), as As	7440-38-2				○	
50	Arsenic acid and its salts, as As	7778-39-4				○	
51	Arsenic pentoxide, as AS	1303-28-2				○	
52	Arsenic trioxide, as AS	1327-53-3				○	
53	Arsenous acid and its salts, as As	13464-58-9				○	
54	Arsine	7784-42-1					○
55	Asbestos, all forms	1332-21-4 12001-28-4 12172-73-5 7536-66-4 77536-67-5 77536-68-6 132207-32-0				○	
56	Asphalt fume (Bitumen)	8052-42-4	◎	○	○		
57	Atrazine	1912-24-9				○	
58	Auramine	492-80-8				○	
59	Azinphos-methyl (Guthion®)	86-50-0				○	
<b>B</b>							
60	Barium and soluble compounds, as Ba	7440-39-3				○	
61	Barium chloride	10326-27-9				○	
62	Benomyl	17804-35-2				○	
63	Beechwood dust	—				○	
64	Benzaldehyde	100-52-7	◎	○	○		
65	Benzene	71-43-2	◎	○	○		
66	Benzidine	92-87-5				○	
67	Benzo[a]pyrene	50-32-8				○	
68	Benzo[e]pyrene	192-97-2				○	
69	Benzoyl peroxide (Dibenzoyl peroxide)	94-36-0				○	
70	Benzylamine	100-46-9	◎	○	○		
71	Benzyl butyl phthalate	85-68-7	◎	○	○		
72	Benzyl chloride	100-44-7		○	○		
73	Berillium and compounds, as Be	7440-41-7				○	○
74	4,4'-Bis(dimethylamino)benzophenone (Micher's ketone)	90-94-8				○	
75	Biphenyl (Diphenyl)	92-52-4				○	
76	Bismuth telluride, Undoped	1304-82-1				○	
77	Bismuth telluride, Se-doped, as Bi <sub>2</sub> Te <sub>3</sub>	1304-82-1				○	
78	Borax (Sodium tetraborate)	1330-43-4				○	
79	Boric acid	10043-35-3				○	
80	Boron oxide	1303-86-2				○	
81	Boron tribromide	10294-33-4					○
82	Boron trifluoride	7637-07-2					○
83	Bromacil	314-40-9				○	

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			Gas Filter			Particle VP3	
			VA1P3	VABE1P3	VA1B2E2K1P3		
84	2-Bromobutane	78-76-2	◎	○	○		
85	Bromine	7726-95-6		○	○		
86	Bromine pentafluoride	7789-30-2					○
87	Bromobenzene	108-86-1	◎	○	○		
88	1-Bromo-2-chloroethane	107-04-0	◎	○	○		
89	Bromoethane (Ethyl bromide)	74-96-4	◎	○	○		
90	Bromoethylene (Vinyl bromide)	593-60-2					○
91	Bromoform (Tribromomethane)	75-25-2	◎	○	○		
92	Bromomethane (Methyl bromide)	74-83-9					
93	2-Bromopentane	107-81-3	◎	○	○		
94	1,3-Butadiene	106-99-0					○
95	n-Butanal (Butyraldehyde)	123-72-8	◎	○	○		
96	n-Butane	106-97-8					○
97	1,4-Butane sultone	1633-83-6	◎	○	○		
98	2,4-Butane sultone	1121-03-5	◎	○	○		
99	1-Butanol (n-Butyl alcohol)	71-36-3	◎	○	○		
100	2-Butanol (sec-Butyl alcohol)	78-92-2	◎	○	○		
101	2-Butanone (Methyl ethyl ketone)	78-93-3	◎	○	○		
102	2-Butanone peroxide (Methyl ethyl ketone peroxide)	1338-23-4	◎	○	○	○	
103	2-Butenal (Crotonaldehyde)	4170-30-3	◎	○	○		
104	2-Butoxyethanol (EGBE)	111-76-2	◎	○	○		
105	2-Butoxyethyl acetate (EGBEA)	112-07-2	◎	○	○		
106	n-Butyl acetate (1-Butyl acetate)	123-86-4	◎	○	○		
107	sec-Butyl acetate (2-Butyl acetate)	105-46-4	◎	○	○		
108	tert-Butyl acetate	540-88-5	◎	○	○		
109	n-Butyl acrylate	141-32-2	◎	○	○		
110	n-Butylamine	109-73-9	◎	○	○		
111	sec-Butylamine	13952-84-6	◎	○	○		
112	tert-Butyl chromate, as CrO <sub>3</sub>	1189-85-1				○	
113	Butyl formate	592-84-7	◎	○	○		
114	n-Butyl glycidyl ether (BGE)	2426-08-6	◎	○	○		
115	tert-Butyl glycidyl ether	7665-72-7	◎	○	○		
116	tert-Butyl hydroperoxide	75-91-2		○	○		
117	n-Butyl lactate	138-22-7	◎	○	○		
118	n-Butyl mercaptan (Butanethiol)	109-79-5		○	○		
119	n-Butyl methacrylate	97-88-1	◎	○	○		
120	tert-Butyl peroxyacetate	107-71-1		○	○		
121	o-sec-Butyl phenol	89-72-5	◎	○	○		
122	p-tert-Butyl phenol	98-54-4				○	

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123	Butyl stearate	123-95-5	◎	○	○	○	
124	p-tert-Butyltoluene	98-51-1	◎	○	○		
<b>C</b>							
125	Cadmium and compounds, as Cd	7440-43-9				○	
126	Cadmium chloride, as Cd	10108-64-2				○	
127	Cadmium oxide, as Cd	1306-19-0				○	
128	Cadmium sulfate, as Cd	1306-23-6				○	
129	Calcium arsenate, as As	7778-44-1				○	
130	Calcium bisulfide solution	13780-03-5		○	○		
131	Calcium carbonate	1317-65-3				○	
132	Calcium chromate, as Cr	13765-19-0				○	
133	Calcium cyanamide	156-62-7				○	
134	Calcium hydroxide	1305-62-0				○	
135	Calcium oxide	1305-78-8				○	
136	Camphor, synthetic	76-22-2	◎	○	○	○	
137	Caprolactam	105-60-2				○	
138	Captafol	2425-06-1				○	
139	Captan	133-06-2				○	
140	Carbaryl (Sevin®)	63-25-2				○	
141	Carbofuran	1563-66-2				○	
142	Carbon black	1333-86-4				○	
143	Carbon dioxide	124-38-9					○
144	Carbon disulfide	75-15-0		○	○		
145	Carbon monoxide	630-08-0					○
146	Carbon tetrabromide	558-13-4	◎	○	○	○	
147	Carbon tetrachloride	56-23-5	◎	○	○		
148	Carbonyl fluoride	353-50-4					○
149	Cellulose	9004-34-6				○	
150	Chlordane	57-74-9				○	
151	Chlordecone (Kepone®)	143-50-0	◎	○	○	○	
152	Chlorine	7782-50-5		○	○		
153	Chlorine dioxide	10049-04-4		○	○		
154	Chlorine trifluoride	7790-91-2					○
155	Chloroacetaldehyde	107-20-0	◎	○	○		
156	2-Chloroacetophenone (Phenacyl chloride) (CN)	532-27-4	◎	○	○	○	
157	Chloroacetyl chloride	79-04-9	◎	○	○		
158	p-Chloroaniline	106-47-8				○	
159	Chlorobenzene (Monochlorobenzene)	108-90-7	◎	○	○		
160	o-Chlorobenzylidene malononitrile (CS)	2698-41-1				○	
161	Chlorobromomethane (Bromochloromethane)	74-97-5	◎	○	○		
162	Chlorodiphenyl, 42% chlorine	53469-21-9	◎	○	○		
163	Chlorodiphenyl, 54% chlorine	11097-69-1	◎	○	○		
164	Chloroform (Trichloromethane)	67-66-3	◎	○	○		
165	N-Chloroformyl-morpholine	15159-40-7	◎	○	○		
166	bis(Chloromethyl)ether	542-88-1		○	○		
167	Chloromethyl methyl ether (CMME ; Methyl chloromethyl ether)	107-30-2	◎	○	○		

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		VA1P3	VABE1P3	VA1B2E2K1P3		
168	3-Chloro-2-methyl-1-propene	563-47-3	◎	○	○	
169	1-Chloronaphthalene	90-13-1	◎	○	○	○
170	1-Chloro-1-nitropropane	600-25-9		○	○	
171	1-Chloropentane	543-59-9	◎	○	○	
172	Chloropicrin (Trichloronitromethane)	76-06-2	◎	○	○	
173	β-Chloroprene (2-Chloro-1.3-butadiene)	126-99-8	◎	○	○	
174	1-Chloropropane	540-54-5	◎	○	○	
175	2-Chloropropane (Isopropyl chloride)	75-29-6	◎	○	○	
176	o-Chlorostyrene	2039-87-4	◎	○	○	
177	o-Chlorotoluene	95-49-8	◎	○	○	
178	4-Chloro-o-toluidine	95-69-2	◎	○	○	
179	5-Chloro-o-toluidine	95-79-4	◎	○	○	
180	Chlorpyrifos	2921-88-2	◎	○	○	
181	Chromic acid and chromates, as Cr	7738-94-5				○
182	Chromite, as Cr	—				○
183	Chromium (III) inorganic compounds, as Cr	7440-47-3				○
184	Chromium (VI) inorganic compounds, water-soluble, as Cr	—				○
185	Chromium (VI) inorganic compounds, insoluble, as Cr	—				○
186	Chromium carbonyl	13007-92-6				○
187	Chromium (III) oxide	1308-38-9				○
188	Chromium oxychloride	14977-61-8		○	○	
189	Citric acid	77-92-9				○
190	Coal dust, anthracite	—				○
191	Coal dust, bituminous or lignite	—				○
192	Coal tar pitch volatiles, as benzene soluble aerosol	65996-93-2	◎	○	○	○
193	Cobalt and compounds	7440-48-4				○
194	Cobalt (II) acetate tetrahydrate	6147-53-1	◎	○	○	○
195	Coconut oil	—				○
196	Copper, dusts and mists, as Cu	7440-50-8				○
197	Copper, fume, as Cu	7440-50-8				○
198	Copper (II) chloride	7447-39-4				○
199	Copper (II) sulfate	7758-98-7				○
200	Cotton dust, raw, untreated	—				○
201	Cresol, all isomers	1319-77-3	◎	○	○	
202	Cumene	98-82-8	◎	○	○	
203	Cumene hydroperoxide	80-15-9	◎	○	○	
204	Cyanamide	420-04-2		○	○	
205	Cyanides, as CN	—		○	○	
206	Cyanogen	460-19-5				○
207	Cyanogen bromide	506-68-3		○	○	
208	Cyanogen chloride	506-77-4				○
209	Cyanuric chloride	108-77-0		○	○	
210	Cyclohexane	110-82-7	◎	○	○	
211	Cyclohexanol	108-93-0	◎	○	○	

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		VA1P3	VABE1P3	VA1B2E2K1P3		
212	Cyclohexanone	108-94-1	◎	○	○	
213	Cyclohexene	110-83-8	◎	○	○	
214	Cyclohexylamine	108-91-8	◎	○	○	
215	Cyclonite (RDX)	121-82-4				○
216	1,3-Cyclopentadiene	542-92-7	◎	○	○	
217	Cyclopentanone	120-92-3	◎	○	○	
<b>D</b>						
218	2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7				○
219	DDT (Dichlorodiphenyltrichloro-ethane)	50-29-3				○
220	Decaborane	17702-41-9				○
221	n-Decane	124-18-5	◎	○	○	
222	1-Decanol	112-30-1	◎	○	○	
223	Demeton (Systox®)	8065-48-3	◎	○	○	
224	Diacetone alcohol (4-Hydroxy-4-methyl-2-pentanone)	123-42-2	◎	○	○	
225	Diacetyl peroxide	110-22-5		○	○	
226	2,4-Diaminoanisole	615-05-4				○
227	3,3'-Diaminobenzidine	91-95-2				○
228	3,3'-Diaminobenzidine tetrahydrochloride	7411-49-5				○
229	4,4'-Diamino-3,3'-dimethyldiphenylmethane	838-88-0				○
230	2,4-Diaminotoluene (Toluene-2,4-diamine)	95-80-7	◎	○	○	○
231	Diatomaceous earth, calcinated	99439-28-8				○
232	Diatomaceous earth, uncalcinated	61790-53-2				○
233	Diazinon®	333-41-5	◎	○	○	
234	Diazomethane	334-88-3				○
235	Dibenzylamine	103-49-1	◎	○	○	
236	Dibenzylether	103-50-4	◎	○	○	
237	Diborane	19287-45-7				○
238	1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	◎	○	○	
239	1,2-Dibromoethane	106-93-4	◎	○	○	
240	2-N-Dibutylaminoethanol	102-81-8	◎	○	○	
241	Dibutyl ether	142-96-1	◎	○	○	
242	Dibutyl phosphate	107-66-4	◎	○	○	
243	Dibutyl phthalate	84-74-2	◎	○	○	
244	Dichloroacetylene	7572-29-4	◎	○	○	
245	o-Dichlorobenzene	95-50-1	◎	○	○	
246	m-Dichlorobenzene	541-73-1	◎	○	○	
247	p-Dichlorobenzene	106-46-7	◎	○	○	
248	3,3'-Dichlorobenzidine	91-94-1				○
249	1,4-Dichloro-2-butene	764-41-0	◎	○	○	
250	2,2'-Dichlorodiethyl ether	111-44-4	◎	○	○	
251	Dichlorodiisopropyl ether	108-60-1	◎	○	○	
252	Dichlorodimethyl ether	4885-02-3	◎	○	○	
253	1,3-Dichloro-5,5-dimethyl hydantoin	118-52-5				○
254	1,1-Dichloroethane	75-34-3	◎	○	○	
255	1,2-Dichloroethane	107-06-2	◎	○	○	

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		VA1P3	VABE1P3	VA1B2E2K1P3		
256	1,1-Dichloroethylen	75-35-4	◎	○	○	
257	cis-1,2-Dichloroethene	156-59-2	◎	○	○	
258	trans-1,2-Dichloroethene	156-60-5	◎	○	○	
259	Dichloromethane	75-09-2	◎	○	○	
260	1,2-Dichloromethoxyethane	41683-62-9	◎	○	○	
261	1,1-Dichloro-1-nitroethane	594-72-9	◎	○	○	
262	1,2-Dichloropropane	78-87-5	◎	○	○	
263	1,3-Dichloro-2-propanol	96-23-1	◎	○	○	
264	1,3-Dichloropropene	542-75-6	◎	○	○	
265	2,2-Dichloropropionic acid	75-99-0	◎	○	○	
266	Dichlorotetrafluoroethane (1,2-Dichloro-1,1,2,2-tetrafluoroethane)	76-14-2				○
267	2,4-Dichlorotoluene	95-73-8	◎	○	○	
268	Dichlorvos (DDVP)	62-73-7	◎	○	○	
269	Dicyclohexylmethane-4,4'-diisocyanate	5124-30-1	◎	○	○	
270	Dicyclohexyl peroxide	1758-61-8	◎	○	○	
271	Dicyclohexyl phthalate	84-61-7				○
272	Dicyclopentadiene	77-73-6	◎	○	○	
273	Dicyclopentadienyl iron, as Fe (Ferrocene)	102-54-5				○
274	Dieldrin	60-57-1				○
275	Diesel fuel	68476-30-2 68334-30-5 68476-34-6 77650-28-3	◎	○	○	
276	Diethanolamine	111-42-2	◎	○	○	○
277	Diethylamine	109-89-7	◎	○	○	
278	2-Diethylaminoethanol	100-37-8	◎	○	○	
279	Diethyl carbonate	105-58-8	◎	○	○	
280	Diethylene glycol	111-46-6	◎	○	○	
281	Diethylene triamine	111-40-0	◎	○	○	
282	Diethyl ether (Ethyl ether)	60-29-7				
283	N,N-Diethylhydroxylamine (DEHA)	3710-84-7	◎	○	○	
284	Diethyl oxalate	95-92-1	◎	○	○	
285	Diethyl phthalate	84-66-2	◎	○	○	
286	Diethyl sebacate	110-40-7	◎	○	○	
287	Diethyl sulfate	64-67-5	◎	○	○	
288	Diethyl sulfide	352-93-2		○	○	
289	Difluorobromomethane	1511-62-2				○
290	Difluorodibromomethane	75-61-6		○	○	
291	Diglycidyl ether (DGE)	2238-07-5	◎	○	○	
292	1,2-Dihydroxybenzene (Catechol)	120-80-9				○
293	1,3-Dihydroxybenzene (Resorcinol)	108-46-3				○
294	1,4-Dihydroxybenzene (Hydroquinone)	123-31-9				○
295	Diisobutyl ketone	108-83-8	◎	○	○	
296	Diisopropylamine	108-18-9	◎	○	○	

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			Gas Filter			Particle	
			VA1P3	VABE1P3	VA1B2E2K1P3	VP3	
297	Dilauroyl peroxide	105-74-8	◎	○	○	○	
298	3,3'-Dimethoxybenzidine	119-90-4				○	
299	1,1-Dimethoxyethane	534-15-6	◎	○	○		
300	1,2-Dimethoxyethane	110-71-4	◎	○	○		
301	Dimethoxymethane	109-87-5	◎	○	○		
302	N,N-Dimethylacetamide	127-19-5	◎	○	○		
303	Dimethylamine	124-40-3			○		
304	1-Dimethylamino-2-propanol	108-16-7	◎	○	○		
305	N,N-Dimethylaniline	121-69-7	◎	○	○		
306	3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7				○	
307	2,2-Dimethylbutane	75-83-2	◎	○	○		
308	2,3-Dimethylbutane	79-29-8	◎	○	○		
309	1,3-Dimethylbutyl acetate	108-84-9	◎	○	○		
310	Dimethylcarbamoyl chloride	79-44-7		○	○		
311	N,N-Dimethylcyclohexylamine	98-94-2	◎	○	○		
312	Dimethyl disulfide	624-92-0		○	○		
313	N,N-Dimethylethanolamine	108-01-0	◎	○	○		
314	Dimethyl ether	115-10-6					
315	N,N-Dimethylethylamine	598-56-1	◎	○	○		
316	N,N-Dimethylformamide	68-12-2	◎	○	○		
317	1,1-Dimethylhydrazine	57-14-7			○		
318	1,2-Dimethylhydrazine	540-73-8			○		
319	Dimethyl hydrogen phosphite	868-85-9	◎	○	○		
320	N,N-Dimethylisopropylamine	996-35-0	◎	○	○		
321	Dimethyl phthalate	131-11-3	◎	○	○		
322	2,2-Dimethyl propane (Neopentane)	463-82-1					
323	Dimethyl sulfate	77-78-1	◎	○	○		
324	Dimethyl sulfide	75-18-3	◎	○	○		
325	1,2-Dinitrobenzene	528-29-0				○	
326	1,3-Dinitrobenzene	99-65-0				○	
327	1,4-Dinitrobenzene	100-25-4				○	
328	4,6-Dinitro-o-cresol	534-52-1				○	
329	1,5-Dinitronaphthalene	605-71-0				○	
330	2,6-Dinitronaphthalene	24824-26-8	◎	○	○		
331	Dinitropyrene	78432-19-6				○	
332	2,3-Dinitrotoluene	602-01-7				○	
333	2,4-Dinitrotoluene	121-14-2				○	
334	2,5-Dinitrotoluene	619-15-8				○	
335	2,6-Dinitrotoluene	606-20-2				○	
336	3,4-Dinitrotoluene	610-39-9				○	
337	3,5-Dinitrotoluene	618-85-9				○	
338	1,4-Dioxane	123-91-1	◎	○	○		
339	Dioxathion	78-34-2		○	○		
340	1,3-Dioxolane	646-06-0	◎	○	○		
341	Dipentene	138-86-3	◎	○	○		
342	Diphenylamine	122-39-4				○	
343	Diphenyl ether	101-84-8	◎	○	○		
344	Diphenylmethane diisocyanate (MDI)	101-68-8	◎	○	○		
345	Dipropylamine	142-84-7	◎	○	○		
346	Dipropylene glycol methyl ether	34590-94-8	◎	○	○		
347	Dipropyl ether	111-43-3	◎	○	○		

◎ : Highly Recommended ○ : Recommended

Substance	CAS No.	Recommended Filter				Airline or SCBA	
		Gas Filter			Particle		
		VA1P3	VABE1P3	VA1B2E2K1P3	VP3		
348	Diquat dibromide	85-00-7				○	
349	Disulfoton	298-04-4		○	○		
350	Disulfur dichloride (Sulfur monochloride)	10025-67-9		○	○		
351	Di-sec-octyl phthalate	117-81-7	◎	○	○		
352	Disulfiram	97-77-8				○	
353	2,6-Di-tert-butyl-p-cresol	128-37-0				○	
354	Di-tert-butyl peroxide	110-05-4	◎	○	○		
355	Diuron	330-54-1				○	
356	1,2-Divinylbenzene	91-14-5	◎	○	○		
357	1,3-Divinylbenzene	108-57-6	◎	○	○		
358	Dodecylbenzene	123-01-3	◎	○	○		
<b>E</b>							
359	Emery	1302-74-5				○	
360	Endosulfan	115-29-7				○	
361	Endrin	72-20-8				○	
362	Enflurane	13838-16-9					
363	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106-89-8	◎	○	○		
364	EPN (O-Ethyl O-4-nitrophenyl phenyl phosphonothioate)	2104-64-5	◎	○	○		
365	1,2-Epoxybutane	106-88-7	◎	○	○		
366	Ethanol	64-17-5	◎	○	○		
367	2-Ethoxyethanol (EGEE; Cellosolve)	110-80-5	◎	○	○		
368	2-Ethoxyethyl acetate (EGEEA; Cellosolve acetate)	111-15-9	◎	○	○		
369	Ethyl acetate	141-78-6	◎	○	○		
370	Ethyl acrylate (Acrylic acid)	140-88-5	◎	○	○		
371	Ethylamine	75-04-7					
372	Ethyl amyl ketone (5-Methyl-3-heptanone)	541-85-5	◎	○	○		
373	Ethyl benzene	100-41-4	◎	○	○		
374	Ethyl carbamate (Urethane)	51-79-6	◎	○	○		
375	Ethyl chloride (Chloroethane)	75-00-3					
376	Ethyl chloroacetate	105-39-5	◎	○	○		
377	Ethylene chlorohydrin (2-Chloroethanol)	107-07-3	◎	○	○		
378	Ethylenediamine (1,2-Diaminoethane)	107-15-3	◎	○	○		
379	Ethyleneimine (Aziridine)	151-56-4			○		
380	Ethylene glycol	107-21-1	◎	○	○		
381	Ethylene glycol dinitrate (EGDN)	628-96-6	◎	○	○		
382	Ethylene glycol monoisopropyl ether	109-59-1	◎	○	○		
383	Ethylene oxide	75-21-8					
384	Ethyl formate (Formic acid ethyl ester)	109-94-4	◎	○	○		
385	2-Ethyl-1-hexanol	104-76-7	◎	○	○		

◎ : Highly Recommended ○ : Recommended

Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
386 Ethyl mercaptane (Ethanethiol)	75-08-1	◎	○	○		
387 4-Ethylmorpholine	100-74-3	◎	○	○		
388 Ethyl propionate	105-37-3	◎	○	○		
389 Ethyl silicate (Silicic acid tetraethyl ester)	78-10-4	◎	○	○		
<b>F</b>						
390 Fenchlorophos	299-84-3	◎	○	○		
391 Fention	55-38-9	◎	○	○		
392 Ferbam	14484-64-1				○	
393 Ferrocene	102-54-5				○	
394 Ferrovandium dust	12604-58-9				○	
395 Flour dust	—				○	
396 Fluorides, as F	—		○	○		
397 Fluorine	7782-41-4		○	○		
398 Fluorobenzene	462-06-6	◎	○	○		
399 Formaldehyde	50-00-0		○	○		
400 Formamide	75-12-7	◎	○	○		
401 Formic acid	64-18-6		○	○		
402 Fuel oils	—	◎	○	○		
403 Furan	110-00-9	◎	○	○		
404 Furfural	98-01-1	◎	○	○		
405 Furfuryl alcohol	98-00-0	◎	○	○		
<b>G</b>						
406 Gasoline	86290-81-5 8006-61-9	◎	○	○		
407 Gelatin	9000-70-8				○	
408 Germanium tetrahydride	7782-65-2					○
409 Glass, fibrous or dust	—				○	
410 Glutaraldehyde	111-30-8	◎	○	○		
411 Glycerine	56-81-5	◎	○	○		
412 Glycidol (2,3-Epoxy-1-propanol)	556-52-5	◎	○	○		
413 Glycidyl isopropyl ether	4016-14-2	◎	○	○		
414 Glyoxal	107-22-2				○	
415 Graphite, natural	7782-42-5				○	
<b>H</b>						
416 Hafnium and compounds, as Hf	7440-58-6				○	
417 Helium	7440-59-7					○
418 Halotane (2-Bromo-2-chloro-1,1,1-trifluoroethane)	151-67-7					
419 Heptachlor	76-44-8				○	
420 n-Heptane	142-82-5	◎	○	○		
421 2-Heptanone	110-43-0	◎	○	○		
422 3-Heptanone	106-35-4	◎	○	○		
423 4-Heptanone	123-19-3	◎	○	○		
424 Hexachlorobenzene (HCB)	118-74-1				○	
425 Hexachlorocyclopentadiene	77-47-4	◎	○	○		
426 Hexachloroethane	67-72-1	◎	○	○		
427 Hexamethylenediamine	124-09-4	◎	○	○		
428 Hexamethylene diisocyanate	822-06-0	◎	○	○		
429 Hexamethylenetetramine	100-97-0		○	○		

◎ : Highly Recommended ○ : Recommended

Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
430	Hexamethylphosphoramide	680-31-9	◎	○	○	
431	n-Hexane	110-54-3	◎	○	○	
432	n-Hexanol	111-27-3	◎	○	○	
433	2-Hexanone	591-78-6	◎	○	○	
434	1-Hexene	592-41-6	◎	○	○	
435	cis-2-Hexene	7688-21-3	◎	○	○	
436	trans-2-Hexene	4050-45-7	◎	○	○	
437	Hexylamine	111-26-2	◎	○	○	
438	Hexylene glycol	107-41-5	◎	○	○	
439	Hydrazine	302-01-2			○	
440	Hydrazobenzene (1,2-Diphenylhydrazine)	122-66-7				○
441	Hydrazoic acid	7782-79-8		○	○	
442	Hydrogenated terphenyls	61788-32-7	◎	○	○	
443	Hydrogen bromide	10035-10-6		○	○	
444	Hydrogen chloride	7647-01-0		○	○	
445	Hydrogen cyanide	74-90-8		○	○	
446	Hydrogen fluoride, as F	7664-39-3		○	○	
447	Hydrogen peroxide	7722-84-1		○	○	
448	Hydrogen selenide	7783-07-5		○	○	
449	Hydrogen sulfide	7783-06-4		○	○	
450	Hydroxylamine	7803-49-8		○	○	
451	2-Hydroxypropyl acrylate	999-61-1	◎	○	○	
452	Indene	95-13-6	◎	○	○	
453	Indium and compounds, as In	7440-74-6				○
454	Inorganic fiber	—				○
455	Iodine	7553-56-2	◎	○	○	
456	Iodoform	75-47-8	◎	○	○	
457	Iodomethane (Methyl iodide)	74-88-4	◎	○	○	
458	Iron( II ) chloride	7758-94-3				○
459	Iron( III ) chloride	7705-08-0				○
460	Iron( II ) oxide	1345-25-1				○
461	Iron( III ) oxide	1309-37-1				○
462	Iron pentacarbonyl	13463-40-6	◎	○	○	
463	Iron( II ) sulfide	1317-37-9				○
464	Iron( III ) sulfide	12063-27-3				○
465	Iron salts, soluble, as Fe	—				○
466	Isoamyl acetate	123-92-2	◎	○	○	
467	Isoamyl alcohol	123-51-3	◎	○	○	
468	Isobutane	75-28-5				
469	Isobutanol (Isobutyl alcohol)	78-83-1	◎	○	○	
470	Isobutyl acetate	110-19-0	◎	○	○	
471	Isobutylamine	78-81-9	◎	○	○	
472	Isobutylformate	542-55-2	◎	○	○	
473	Isobutyraldehyde	78-84-2	◎	○	○	
474	Isoflurane	26675-46-7	◎	○	○	
475	Isooctane (2,2,4-Trimethylpentane)	540-84-1	◎	○	○	
476	Isophorone	78-59-1	◎	○	○	
477	Isophorone diisocyanate	4098-71-9	◎	○	○	
478	Isopropyl acetate	108-21-4	◎	○	○	

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Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
479	Isopropylamine	75-31-0	◎	○	○	
480	N-Isopropylaniline	768-52-5	◎	○	○	
481	Isopropyl ether	108-20-3	◎	○	○	
482	Isopropyl nitrate	1712-64-7	◎	○	○	
483	Isopropyl oil	—	◎	○	○	
<b>J</b>						
484	Jet fuel	—	◎	○	○	
<b>K</b>						
485	Kerosene	—	◎	○	○	
<b>L</b>						
486	Lactic acid	50-21-5		○	○	
487	Lead and inorganic compounds, as Pb	7439-92-1			○	
488	Lead alkyls	75-74-1 78-00-2	◎	○	○	
489	Lead(II) acetate trihydrate	6080-56-4			○	
490	Lead arsenate	3687-31-8			○	
491	Lead chromate	7758-97-6			○	
492	Linseed oil	—	◎	○	○	
493	Lindane (γ-Hexachlorocyclohexane)	58-89-9				
494	Lithium hydride	7580-67-8			○	
495	Lithium hydroxide	1310-65-2			○	
<b>M</b>						
496	Magnesium chloride	7786-30-3			○	
497	Magnesium hydroxide	1309-42-8			○	
498	Magnesium oxide	1309-48-4			○	
499	Magnesium sulfate	7487-88-9			○	
500	Malathion	121-75-5	◎	○	○	
501	Maleic acid	110-16-7			○	
502	Maleic anhydride	108-31-6	◎	○	○	
503	Manganese and inorganic compounds, as Mn	7439-96-5			○	
504	Manganese, fume, as Mn	7439-96-5			○	
505	Manganese cyclopentadienyl tricarbonyl, as Mn	12079-65-1			○	
506	Manganese(IV) oxide	1313-13-9			○	
507	2-Mercaptoethanol	60-24-2		○	○	
508	Mercury and compounds, as Hg	7439-97-6				○
509	Mesityl oxide	141-79-7	◎	○	○	
510	Methacrylic acid	79-41-4	◎	○	○	
511	Methacrylonitrile	126-98-7	◎	○	○	
512	Methane	74-82-8				○
513	Methanol (Methyl alcohol)	67-56-1				
514	Methomyl	16752-77-5			○	
515	Methoxychlor	72-43-5			○	
516	2-Methoxyethanol (EGME)	109-86-4	◎	○	○	
517	2-Methoxyethyl acetate (EGMEA)	110-49-6	◎	○	○	
518	1-Methoxy-2-propanol	107-98-2	◎	○	○	
519	2-Methoxy-1-propanol	1589-47-5	◎	○	○	

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	Substance	CAS No.	Recommended Filter				Airline or SCBA
			Gas Filter			Particle VP3	
			VA1P3	VABE1P3	VA1B2E2K1P3		
520	1-Methoxy-2-propanol acetate	108-65-6	◎	○	○		
521	2-Methoxy-1-propanol acetate	70657-70-4	◎	○	○		
522	Methyl acetate	79-20-9	◎	○	○		
523	Methyl acrylate	96-33-3	◎	○	○		
524	Methylamine	74-89-5			○		
525	N-Methylaniline	100-61-8	◎	○	○		
526	2-Methylbutane	78-78-4	◎	○	○		
527	Methyl-tert-butyl ether	1634-04-4	◎	○	○		
528	Methyl chloroform (1,1,1-Trichloroethane)	71-55-6	◎	○	○		
529	Methyl-2-cyanoacrylate	137-05-3		○	○		
530	Methylcyclohexane	108-87-2	◎	○	○		
531	Methylcyclohexanol	25639-42-3	◎	○	○		
532	2-Methylcyclohexanone	583-60-8	◎	○	○		
533	Methyl demeton (Demeton-methyl)	8022-00-2	◎	○	○		
534	4,4'-Methylene-bis(2-chloroaniline) (MBOCA)	101-14-4				○	
535	4,4'-Methylene dianiline (4,4'-Diaminodiphenyl-methane)	101-77-9				○	
536	Methyl ethyl ketone peroxide	1338-23-4	◎	○	○		
537	Methyl formate	107-31-3	◎	○	○		
538	Methyl hydrazine	60-34-4		○	○		
539	Methyl isoamyl ketone (5-Methyl-2-hexanone)	110-12-3	◎	○	○		
540	Methyl isobutyl carbinol (4-Methyl-2-pentanol)	108-11-2	◎	○	○		
541	Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	◎	○	○		
542	Methyl isocyanate	624-83-9	◎	○	○		
543	Methyl mercaptan (Methanethiol)	74-93-1					
544	Methyl mercury	22967-92-6					○
545	Methyl methacrylate	80-62-6	◎	○	○		
546	Methyl parthion	298-00-0	◎	○	○		
547	2-Methylpentane	107-83-5	◎	○	○		
548	3-Methylpentane	96-14-0	◎	○	○		
549	4-Methylpent-3-en-2-on	141-79-7	◎	○	○		
550	2-Methyl-2-propanol (tert-Butyl alcohol)	75-65-0	◎	○	○		
551	Methyl propyl ketone (2-Pentanone)	107-87-9	◎	○	○		
552	2-Methyl-2-propanethiol	75-66-1	◎	○	○		
553	Methyl propionate	554-12-1	◎	○	○		
554	N-Methyl-2-pyrrolidone	872-50-4	◎	○	○		
555	Methyl silicate	681-84-5	◎	○	○		
556	α-Methyl styrene	98-83-9	◎	○	○		
557	Mevinphos (Phosdrin®)	7786-34-7	◎	○	○		
558	Mineral wool fiber	—				○	
559	Molybdenum and compounds, as Mo	7439-98-7				○	
560	Monochloroacetic acid	79-11-8				○	
561	Morpholine	110-91-8	◎	○	○		
562	Motor oils, used	—	◎	○	○		

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	Substance	CAS No.	Recommended Filter				Airline or SCBA
			Gas Filter			Particle VP3	
			VA1P3	VABE1P3	VA1B2E2K1P3		
563	Mustard gas (2,2'-Dichlorodiethyl sulfide)	505-60-2		○	○		
<b>N</b>							
564	Naled (Dibrom)	300-76-5	◎	○	○		
565	Naphtha, Benzin	8030-30-6	◎	○	○		
566	Naphtha (petroleum), Hydrotreated heavy	64742-48-9	◎	○	○		
567	Naphthalene	91-20-3	◎	○	○		
568	1,5-Naphthalene diisocyanate (NDI)	3173-72-6	○			○	
569	α-Naphthylamine (1-Naphthylamine)	134-32-7	○			○	
570	β-Naphthylamine (2-Naphthylamine)	91-59-8	○			○	
571	Neon	7440-01-9					○
572	Nickel	7440-02-0				○	
573	Nickel carbonate	3333-67-3				○	
574	Nickel chloride	7718-54-9				○	
575	Nickel oxide	1313-99-1				○	
576	Nickel sulfide	16812-54-7				○	
577	Nicotine	54-11-5	◎	○	○		
578	Nitrapyrin (2-Chloro-6-(trichloromethyl)pyridine)	1929-82-4				○	
579	Nitric acid	7697-37-2		○	○		
580	5-Nitroacenaphthene	602-87-9				○	
581	2-Nitro-4-aminophenol	119-34-6				○	
582	4-Nitroaniline	100-01-6				○	
583	Nitrobenzene	98-95-3	◎	○	○		
584	4-Nitrobiphenyl	92-93-3				○	
585	Nitroethane	79-24-3	◎	○	○		
586	Nitrogen dioxide	10102-44-0		○	○		
587	Nitrogen monoxide	10102-43-9		○	○		
588	Nitrogen trifluoride	7783-54-2					○
589	Nitroglycerin (Glyceryl trinitrate)	55-63-0	◎	○	○		
590	Nitromethane	75-52-5	◎	○	○		
591	1-Nitronaphthalene	86-57-7				○	
592	2-Nitronaphthalene	581-89-5				○	
593	5-Nitro-o-toluidine	99-55-8				○	
594	2-Nitro-1,4-phenylenediamine	5307-14-2				○	
595	1-Nitropropane	108-03-2	◎	○	○		
596	2-Nitropropane	79-46-9	◎	○	○		
597	1-Nitropyrene	5522-43-0				○	
598	2-Nitropyrene	789-07-1				○	
599	4-Nitropyrene	57835-92-4				○	
600	N-Nitrosodiethanolamine (NDELA)	1116-54-7	◎	○	○		
601	N-Nitrosodiethylamine (NDEA)	55-18-5	◎	○	○		
602	N-Nitrosodiisopropylamine	601-77-4				○	
603	N-Nitrosodimethylamine	62-75-9	◎	○	○		

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	Substance	CAS No.	Recommended Filter				Airline or SCBA
			Gas Filter			Particle VP3	
			VA1P3	VABE1P3	VA1B2E2K1P3		
604	N-Nitrosodi-n-butylamine (DBN)	924-16-3	◎	○	○		
605	N-Nitrosodi-n-propylamine (NDPA)	621-64-7	◎	○	○		
606	N-Nitrosoethylphenylamine	612-64-6	◎	○	○		
607	N-Nitrosomethylethylamine	10595-95-6	◎	○	○		
608	N-Nitrosomethylphenylamine	614-00-6	◎	○	○		
609	N-Nitrosomorpholine (NMOR)	59-89-2	◎	○	○	○	
610	N-Nitrosopiperidine (NPIP)	100-75-4	◎	○	○		
611	N-Nitrosopyrrolidine (NPYR)	930-55-2	◎	○	○		
612	2-Nitrotoluene	88-72-2	◎	○	○		
613	3-Nitrotoluene	99-08-1	◎	○	○		
614	4-Nitrotoluene	99-99-0				○	
615	Nonane	111-84-2	◎	○	○		
<b>O</b>							
616	Oakwood dust	—				○	
617	Octachloronaphthalene	2234-13-1				○	
618	n-Octane	111-65-9	◎	○	○		
619	1-Octanol	111-87-5	◎	○	○		
620	1-Octene	111-66-0	◎	○	○		
621	Oil mist, mineral	8012-95-1	◎	○	○		
622	Osmium tetroxide	20816-12-0		○	○		
623	Oxalic acid	144-62-7				○	
624	4,4'-Oxydianiline	101-80-4				○	
625	Oxygen difluoride	7783-41-7					○
626	Ozone	10028-15-6	◎	○	○		
<b>P</b>							
627	Palmitic acid	57-10-3				○	
628	Paraffin wax fume	8002-74-2				○	
629	Paraldehyde	123-63-7	◎	○	○		
630	Paraquat dichloride	1910-42-5				○	
631	Parathion	56-38-2	◎	○	○		
632	Pentaborane	19624-22-7					○
633	Pentachloroethane	76-01-7	◎	○	○		
634	Pentachloronaphthalene	1321-64-8				○	
635	Pentachlorophenol	87-86-5				○	
636	Pentane	109-66-0	◎	○	○		
637	n-Pentanol	71-41-0	◎	○	○		
638	Peracetic acid	79-21-0	◎	○	○		
639	Perchloromethyl mercaptan	594-42-3	◎	○	○		
640	Perchloryl fluoride	7616-94-6		○	○		
641	Permethrin	52645-53-1	◎	○	○		
642	Phenol	108-95-2	◎	○	○		
643	Phenolphthalein dissolved in ethanol	77-09-8				○	
644	Phenyl acetate	122-79-2	◎	○	○		
645	p-Phenylenediamine	106-50-3				○	
646	Phenyl ether	101-84-8				○	
647	Phenyl ether/biphenyl mixture	8004-13-5	◎	○	○		
648	Phenyl glycidyl ether (PGE)	122-60-1	◎	○	○		
649	Phenylhydrazine	100-63-0	◎	○	○		

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Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
650	Phenyl isocyanate	103-71-9	◎	○	○	
651	Phenyl mercaptan	108-98-5	◎	○	○	
652	N-Phenyl-β-naphthylamine	135-88-6				○
653	Phenylphosphine	638-21-1				○
654	Phorate	298-02-2	◎	○	○	
655	Phosgene (Carbonyl chloride)	75-44-5		○	○	
656	Phosphine	7803-51-2				○
657	Phosphoric acid	7664-38-2		○	○	
658	Phosphorous acid	13598-36-2				○
659	Phosphorus, Yellow	12185-10-3		○	○	
660	Phosphorus oxychloride	10025-87-3		○	○	
661	Phosphorus pentachloride	10026-13-8		○	○	
662	Phosphorus pentasulfide	1314-80-3		○	○	
663	Phosphorus pentoxide	1314-56-3		○	○	
664	Phthalic anhydride	85-44-9	◎	○	○	
665	Picloram	1918-02-1				○
666	Picric acid	88-89-1				○
667	Platinum, soluble salts, as Pt	7440-06-4				○
668	Polychlorinated biphenyls (PCBs)	1336-36-3	◎	○	○	
669	Polyvinyl chloride (PVC)	9002-86-2				○
670	Portland cement	65997-15-1				○
671	Potassium chloride	7447-40-7				○
672	Potassium chromate	7789-00-6				○
673	Potassium cyanide, as CN	151-50-8				○
674	Potassium hydroxide	1310-58-3				○
675	Potassium sulfate	7778-80-5				○
676	1,3-Propane sultone	1120-71-4				○
677	2-Propanethiol	75-33-2	◎	○	○	
678	n-Propanol (n-Propyl alcohol)	71-23-8	◎	○	○	
679	2-Propanol (Isopropyl alcohol)	67-63-0	◎	○	○	
680	Propargyl alcohol	107-19-7	◎	○	○	
681	β-Propiolactone	57-57-8	◎	○	○	
682	Propionaldehyde (Propanal)	123-38-6				
683	Propionic acid	79-09-4	◎	○	○	
684	Propoxur	114-26-1				○
685	n-Propyl acetate	109-60-4	◎	○	○	
686	Propylamine	107-10-8			○	
687	Propylene	115-07-1				○
688	Propylene glycol	57-55-6	◎	○	○	
689	Propylene glycol dinitrate (PGDN)	6423-43-4	◎	○	○	
690	Propylene oxide (1,2-Epoxypropane)	75-56-9	◎	○	○	
691	Propyleneimine	75-55-8	◎	○	○	
692	Propyl formate	110-74-7	◎	○	○	
693	n-Propyl mercaptan	107-03-9	◎	○	○	
694	Pyrethrum	8003-34-7	◎	○	○	
695	Pyridine	110-86-1	◎	○	○	

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Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
<b>Q</b>						
696	Quinone (p-Benzoquinone)	106-51-4	◎	○	○	
<b>R</b>						
697	Rodium, elemental	7440-16-6				○
698	Rotenone, commercial	83-79-4				○
<b>S</b>						
699	Salicylic acid	69-72-7				○
700	Sarin (GB)	107-44-8	◎	○	○	
701	Selenium compounds, as Se	7782-49-2				○
702	Silica, amorphous, fused	60676-86-0				○
703	Silica, amorphous, silica fume	69012-64-2				○
704	Silica, crystalline, cristobalite	14464-46-1				○
705	Silica, crystalline, α-quartz	14808-60-7				○
706	Silicon carbide, fibrous dust	409-21-2				○
707	Silicon carbide, nonfibrous	409-21-2				○
708	Silver, metal	7440-22-4				○
709	Silver, soluble compounds, as Ag	7440-22-4				○
710	Soap solution	—	◎	○	○	
711	Sodium azide	26628-22-8				○
712	Sodium benzoate	532-32-1				○
713	Sodium bisulfite	7631-90-5				○
714	Sodium chlorate	7775-09-9				○
715	Sodium chloride	7647-14-5				○
716	Sodium chromate	7775-11-3				○
717	Sodium cyanide, as CN	143-33-9				○
718	Sodium fluoroacetate	62-74-8				○
719	Sodium hydrogen carbonate	144-55-8				○
720	Sodium hydroxide	1310-73-2				○
721	Sodium metabisulfite	7681-57-4				○
722	Sodium silicate	6834-92-0				○
723	Sodium sulfate	7757-82-6				○
724	Sodium thiosulfate	7772-98-7				○
725	Soman (GD)	96-64-0	◎	○	○	
726	Stearic acid	57-11-4				○
727	Stibine	7803-52-3				○
728	Stoddard solvent	8052-41-3	◎	○	○	
729	Strontium chromate, as Cr	7789-06-2				○
730	Strychnine	57-24-9				○
731	Styrene, monomer	100-42-5	◎	○	○	
732	Subtilisin	1395-21-7				○
733	Sulfotep (TEDP)	3689-24-5	◎	○	○	
734	Sulfur dichloride	10545-99-0		○	○	
735	Sulfur dioxide	7446-09-5		○	○	
736	Sulfuric acid	7664-93-9		○	○	○
737	Sulfur pentafluoride	5714-22-7		○	○	
738	Sulfur tetrafluoride	7783-60-0				○
739	Sulfur trioxide	7446-11-9		○	○	
740	Sulfuryl chloride	7791-25-5		○	○	
741	Sulfuryl difluoride	2699-79-8				○

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Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
<b>T</b>						
742	2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)	93-76-5				○
743	Tabun (GA)	77-81-6	◎	○	○	
744	Talc, containing no asbestos fibers	14807-96-6				○
745	Tannic acid and tannins	1401-55-4				○
746	Tantalum, metal	7440-25-7				○
747	Tar fumes	—				○
748	Tartaric acid	526-83-0				○
749	Tellurium and compounds, as Te	13494-80-9				○
750	Tellurium hexafluoride, as Te	7783-80-4				○
751	Terpentine oil	—	◎	○	○	
752	Terphenyls	26140-60-3				○
753	1,1,2,2-Tetrabromoethane	79-27-6	◎	○	○	
754	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6				○
755	1,1,1,2-Tetrachloro-2,2-difluoroethane (FC-112a)	76-11-9				○
756	1,1,2,2-Tetrachloro-1,2-difluoroethane (FC-112)	76-12-0	◎	○	○	
757	1,1,2,2-Tetrachloroethane	79-34-5	◎	○	○	
758	Tetrachloroethylene (Perchloroethylene)	127-18-4	◎	○	○	
759	Tetrachloronaphthalene	1335-88-2				○
760	Tetraethyl lead	78-00-2	◎	○	○	
761	Tetraethyl pyrophosphate (TEPP)	107-49-3	◎	○	○	
762	Tetraethyl silicate	78-10-4	◎	○	○	
763	Tetrahydrofuran	109-99-9	◎	○	○	
764	Tetrahydrothiophene (THT)	110-01-0	◎	○	○	
765	1,2,4,5-Tetramethylbenzene	95-93-2				○
766	Tetramethyl lead	75-74-1	◎	○	○	
767	Tetramethyl succinonitrile	3333-52-6	◎	○	○	
768	Tetranitromethane	509-14-8		○	○	
769	1,3,6,8-Tetranitropyrene	28767-61-5				○
770	Tetrasodium pyrophosphate	7722-88-5				○
771	Tetryl (N-Methyl-N,2,4,6-tetranitroaniline)	479-45-8				○
772	Thallium and soluble compounds, as Tl	7440-28-0				○
773	4,4'-Thiobis(6-tert-butyl-m-cresol)	96-69-5				○
774	4,4'-Thiodianiline	139-65-1				○
775	Thioglycolic acid	68-11-1	◎	○	○	
776	Thionyl chloride	7719-09-7		○	○	
777	Thiourea	62-56-6				○
778	Thiram	137-26-8				○
779	Tin(IV) chloride	7646-78-8		○	○	
780	Titanium dioxide	13463-67-7				○
781	Toluene (Toluol)	108-88-3	◎	○	○	

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	Substance	CAS No.	Recommended Filter				Airline or SCBA
			Gas Filter			Particle VP3	
			VA1P3	VABE1P3	VA1B2E2K1P3		
782	Toluene-2,4-diisocyanate	584-84-9	◎	○	○		
783	Toluene-2,6-diisocyanate	91-08-7	◎	○	○		
784	p-Toluidine	106-49-0	◎	○	○		
785	Tributyl phosphate	126-73-8	◎	○	○		
786	Tri-n-butyltin benzoate	4342-36-3	◎	○	○		
787	Tri-n-butyltin chloride	1461-22-9	◎	○	○		
788	Tri-n-butyltin fluoride	1983-10-4				○	
789	Tri-n-butyltin linoleate	24124-25-2	◎	○	○		
790	Tri-n-butyltin methacrylate	2155-70-6	◎	○	○		
791	Tri-n-butyltin naphthenate	85409-17-2	◎	○	○		
792	Trichloroacetic acid	76-03-9				○	
793	1,2,4-Trichlorobenzene	120-82-1	◎	○	○		
794	2,3,4-Trichloro-1-butene	2431-50-7	◎	○	○		
795	1,1,2-Trichloroethane	79-00-5	◎	○	○		
796	Trichloroethylene	79-01-6	◎	○	○		
797	Trichloronaphthalene	1321-65-9				○	
798	1,2,3-Trichloropropane	96-18-4	◎	○	○		
799	Tricyclohexyltin hydroxide	13121-70-5				○	
800	Tridymite	15468-32-3				○	
801	Triethanolamine	102-71-6	◎	○	○		
802	Triethylamine	121-44-8	◎	○	○		
803	Triethylene tetramine	112-24-3	◎	○	○		
804	Trimanganese tetraoxide	1317-35-7				○	
805	Trimellitic anhydride	552-30-7				○	
806	Trimethylamine	75-50-3	◎	○	○		
807	2,4,5-Trimethylaniline	137-17-7				○	
808	1,2,3-Trimethyl benzene	526-73-8	◎	○	○		
809	1,2,4-Trimethyl benzene	95-63-6	◎	○	○		
810	1,3,5-Trimethyl benzene (Mesitylene)	108-67-8	◎	○	○		
811	2,4,4-Trimethyl-1-pentene	107-39-1	◎	○	○		
812	Trimethyl phosphate	512-56-1	◎	○	○		
813	Trimethyl phosphite	121-45-9	◎	○	○		
814	2,4,7-Trinitrofluorenone	129-79-3	◎	○	○		○
815	2,4,6-Trinitrotoluene (TNT)	118-96-7				○	
816	1,3,6-Trinitropyrene	75321-19-6				○	
817	Tri-o-tolyl phosphate	78-30-8	◎	○	○		
818	Tri-p-tolyl phosphate	78-32-0				○	
819	Triphenyl amine	603-34-9				○	
820	Triphenyl phosphate	115-86-6	◎	○	○		
821	Tungsten and insoluble compounds, as W	7440-33-7				○	
822	Turpentine	8006-64-2	◎	○	○		
<b>U</b>							
823	n-Undecane	1120-21-4	◎	○	○		
824	Uranium, natural, soluble and insoluble compounds, as U	7440-61-1				○	
<b>V</b>							
825	Vanadium pentoxide, as V	1314-62-1				○	
826	Vinyl acetate	108-05-4	◎	○	○		
827	Vinyl chloride (Chloroethylene)	75-01-4					○

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Substance	CAS No.	Recommended Filter				Airline or SCBA
		Gas Filter			Particle VP3	
		VA1P3	VABE1P3	VA1B2E2K1P3		
828	Vinyl toluene	25013-15-4	◎	○	○	
829	VM & P naphtha	8032-32-4	◎	○	○	
830	VX (nerve agent)	50782-69-9	◎	○	○	
<b>W</b>						
831	Warfarin	81-81-2	◎	○	○	
832	Welding fumes	—				○
833	White spirit	—	◎	○	○	
834	Wood oil	—	◎	○	○	
<b>X</b>						
835	o-Xylene	95-47-6	◎	○	○	
836	m-Xylene	108-38-3	◎	○	○	
837	p-Xylene	106-42-3	◎	○	○	
838	2,6-Xylenol (2,6-Dimethyl phenol)	576-26-1				○
839	2,5-Xylenol (2,5-Dimethyl phenol)	95-87-4	◎	○	○	
840	2,4-Xylenol (2,4-Dimethyl phenol)	105-67-9				○
841	2,3-Xylenol (2,3-Dimethyl phenol)	526-75-0				○
842	3,4-Xylenol (3,4-Dimethyl phenol)	95-65-8				○
843	3,5-Xylenol (3,5-Dimethyl phenol)	108-68-9				○
844	2,3-Xylidine	87-59-2	◎	○	○	
845	2,4-Xylidine	95-68-1	◎	○	○	
846	2,5-Xylidine	95-78-3	◎	○	○	
847	2,6-Xylidine	87-62-7	◎	○	○	
848	3,4-Xylidine	95-64-7				○
849	3,5-Xylidine	108-69-0	◎	○	○	
<b>Y</b>						
850	Yttrium and compounds, as Y	7440-65-5				○
<b>Z</b>						
851	Zinc chloride, fume	7646-85-7				○
852	Zinc chromates, as Cr	13530-65-9				○
853	Zinc oxide, fume	1314-13-2				○
854	Zinc sulfate	7733-02-0				○
855	Zirconium compounds, as Zr	7440-67-7				○