24.1.2022

Calibration components

gasmet

#	Compound name	Formula	CAS number	Maximum range GAS-REF-001*	Maximum range GAS-REF-002**	Unit	Notes
	Typical components						
1	Water	H_2O	7732-18-5	40	60	vol-%	
2	Carbon dioxide	CO_2	124-38-9	30	100	vol-%	
3	Carbon monoxide	CO	630-08-0	1	30	vol-%	
4	Nitrous oxide	N_2O	10024-97-2	200	5000	ppm	
5	Methane	CH_4	74-82-8	1	50	vol-%	
	Open-chain hydrocarbons						
6	1,3-Butadiene	C_4H_6	106-99-0	200	1000	ppm	
7	1-Butene	C_4H_8	106-98-9	200	1000	ppm	
8	1-Heptene	C_7H_{14}	592-76-7	200	1000	ppm	
9	1-Hexyne	C_6H_{10}	693-02-7	NB	NB	ppm	
10	1-Nonene	C_9H_{18}	124-11-8	100	1000	ppm	
11	1-Octene	C_8H_{16}	111-66-0	100	1000	ppm	
12	1-Pentene	C_5H_{10}	109-67-1	200	1000	ppm	
13	2,2-Dimethylbutane	C_6H_{14}	75-83-2	NB	NB	ppm	
14	2,3,4-Trimethylpentane	C_8H_{18}	565-75-3	NB	NB	ppm	
15	2,3-Dimethylbutane	C_6H_{14}	79-29-8	NB	NB	ppm	
16	2,3-Dimethylpentane	C_7H_{16}	565-59-3	NB	NB	ppm	
17	2,4,4-Trimethyl-1-pentene	C_8H_{16}	107-39-1	NB	NB	ppm	
18	2,4,4-Trimethyl-2-pentene	C_8H_{16}	107-40-4	NB	NB	ppm	
19	2,4-Dimethylhexane	C_8H_{18}	589-43-5	NB	NB	ppm	
20	2,4-Dimethylpentane	C_7H_{16}	108-08-7	NB	NB	ppm	
21	2,5-Dimethylhexane	C_8H_{18}	592-13-2	NB	NB	ppm	
22	2-Methyl-1-butene	C_5H_{10}	563-46-2	NB	NB	ppm	
23	3-Methyl-1-butene	C_5H_{10}	563-45-1	NB	NB	ppm	
24	3-Methylhexane	C_7H_{16}	589-34-4	NB	NB	ppm	
25	3-Methylpentane	C_6H_{14}	96-14-0	NB	NB	ppm	
26	Acetylene (Ethyne)	C_2H_2	74-86-2	500	2000	ppm	
27	Butane	C_4H_{10}	106-97-8	200	1000	ppm	
28	Cetane (*n*-Hexadecane)	$C_{16}H_{34}$	544-76-3	NB	NB	ppm	Calibration only for heated analyzer.
29	cis-2-Butene	C_4H_8	590-18-1	NB	NB	ppm	
30	cis-2-Pentene	C_5H_{10}	627-20-3	NB	NB	ppm	
31	Decane	$C_{10}H_{22}$	124-18-5	100	500	ppm	
32	Dodecane	$C_{12}H_{26}$	112-40-3	100	500	ppm	
33	Ethane	C_2H_6	74-84-0	200	2000	ppm	
34	Ethylene (Ethene)	C_2H_4	74-85-1	200	2000	ppm	
35	Heptane	C_7H_{16}	142-82-5	200	1000	ppm	
36	Hexane	C_6H_{14}	110-54-3	200	1000	ppm	
37	Hexene	C_6H_{12}	592-41-6	200	1000	ppm	
38	Isobutane (2-Methyl propane)	C_4H_{10}	75-28-5	200	1000	ppm	
39	Isobutene (2-Methyl-1-propene)	C_4H_8	115-11-7	NB	NB	ppm	
40	Isoheptane	C_7H_{16}	591-76-4	NB	NB	ppm	
41	Isohexane (2-Methyl pentane)	C_6H_{14}	107-83-5	200	1000	ppm	
42	Iso-octane (2,2,4-Trimethyl pentane)	C_8H_{18}	540-84-1	100	500	ppm	
43	Isopentane (2-Methyl butane)	C_5H_{12}	78-78-4	200	1000	ppm	
44	Isopentene (2-Methyl-2-butene)	C_5H_{10}	513-35-9	200	1000	ppm	
45	Isoprene	C_5H_8	78-79-5	200	1000	ppm	
46	Nonane	C_9H_{20}	111-84-2	100	500	ppm	
47	Octane	C_8H_{18}	111-65-9	100	500	ppm	
48	Pentane	C_5H_{12}	109-66-0	200	1000	ppm	
49	Propane	C_3H_8	74-98-6	200	1000	ppm	
50	Propene	C_3H_6	115-07-1	200	1000	ppm	
51	Propyne	C_3H_4	74-99-7	NB	NB	ppm	
52	Tetradecane	$C_{14}H_{30}$	629-59-4	100	500	ppm	
53	trans-2-Butene	C_4H_8	624-64-6	NB	NB	ppm	
54	trans-2-Pentene	C_5H_{10}	646-04-8	NB	NB	ppm	
55	Tridecane	$C_{13}H_{28}$	629-50-5	100	500	ppm	
56	Undecane	$C_{11}H_{24}$	1120-21-4	100	500	ppm	
57	Vinylacetylene (1-Buten-3-yne)	C_4H_4	689-97-4	NB	NB	ppm	
	Aromatic or cyclic hydrocarbons						
58	(-)-trans-Caryophyllene	$C_{15}H_{24}$	87-44-5	NB	NB	ppm	
59	1,2,3-Trimethylbenzene	C_9H_{12}	526-73-8	200	1000	ppm	
60	1,2,4-Trimethylbenzene	C_9H_{12}	95-63-6	200	1000	ppm	
61	1,2,4-Trivinylcyclohexane	$C_{12}H_{18}$	2855-27-8	NB	NB	ppm	
62	1,3,5-Triisopropylbenzene	$C_{15}H_{24}$	717-74-8	NB	NB	ppm	
63	1,3,5-Trimethylbenzene (Mesitylene)	C_9H_{12}	108-67-8	200	1000	ppm	
64	1-Ethylnaphthalene	$C_{12}H_{12}$	1127-76-0	NB	NB	ppm	Only non-instrument specific references. Solid material.
65	1-Methylnaphthalene	$C_{11}H_{10}$	90-12-0	NB	NB	ppm	Only non-instrument specific references. Solid material.
66	2-Ethyltoluene	C_9H_{12}	611-14-3	200	1000	ppm	

67	2-Methylnaphthalene	$C_{11}H_{10}$	91-57-6	NB	NB	ppm	Only non-instrument specific references. Solid material.
68	2-Vinyltoluene (2-methylstyrene, o-methylstyrene)	C_9H_{10}	611-15-4	NB	NB	ppm	
69	3-Ethyltoluene	C_9H_{12}	620-14-4	200	1000	ppm	
70	3-Vinyltoluene (3-methylstyrene, m-methylstyrene)	C_9H_{10}	100-80-1	NB	NB	ppm	
71	4-Ethyltoluene	C_9H_{12}	622-96-8	200	1000	ppm	
72	4-tert-Butylstyrene	$C_{12}H_{16}$	1746-23-2	NB	NB	ppm	
73	4-Vinyl-1-cyclohexene	C_8H_{12}	100-40-3	NB	NB	ppm	
74	4-Vinyltoluene (4-methylstyrene, p-methylstyrene)	C_9H_{10}	622-97-9	NB	NB	ppm	
75	5-Ethylidene-2-norbornene (ENB)	C_9H_{12}	16219-75-3	NB	NB	ppm	
76	5-Vinyl-2-norbornene (VNB)	C_9H_{12}	3048-64-4	NB	NB	ppm	
77	Acenaphthene	$C_{12}H_{10}$	83-32-9	NB	NB	ppm	Only non-instrument specific references. Solid material.
78	Benzene	C_6H_6	71-43-2	200	1000	ppm	
79	Biphenyl	$C_{12}H_{10}$	92-52-4	NB	NB	ppm	
80	cis-1,4-Dimethylcyclohexane	C_8H_{16}	624-29-3	NB	NB	ppm	
81	Cumene	C_9H_{12}	98-82-8	200	1000	ppm	
82	Cyclohexane	C_6H_{12}	110-82-7	100	500	ppm	
83	Cyclopentane	C_5H_{10}	287-92-3	100	500	ppm	
84	Cyclopentene	C_5H_8	142-29-0	200	1000	ppm	
85	Cyclopropane (Trimethylene)	C_3H_6	75-19-4	NB	NB	ppm	
86	Delta-3-Carene	$C_{10}H_{16}$	13466-78-9	200	1000	ppm	
87	Dicyclopentadiene (DCPD)	$C_{10}H_{12}$	77-73-6	NB	NB	ppm	
88	Ethyl benzene	C_8H_{10}	100-41-4	500	2000	ppm	
89	Ethylcyclohexane	C_8H_{16}	1678-91-7	100	500	ppm	
90	Indene	C_9H_8	95-13-6	NB	NB	ppm	
91	Isopropylcyclohexane (Methylethylcyclohexane)	C_9H_{18}	696-29-7	NB	NB	ppm	
92	Limonene	$C_{10}H_{16}$	138-86-3	200	1000	ppm	
93	m-Diethylbenzene (1,3-diethylbenzene)	$C_{10}H_{14}$	141-93-5	100	500	ppm	
94	Methylcyclohexane	C_7H_{14}	108-87-2	100	500	ppm	
95	Methylcyclopentane	C_6H_{12}	96-37-7	100	500	ppm	
96	m-Xylene	C_8H_{10}	108-38-3	500	2000	ppm	
97	Naphthalene	$C_{10}H_8$	91-20-3	NB	NB	ppm	Only non-instrument specific references. Solid material.
98	o-Diethylbenzene (1,2-diethylbenzene)	$C_{10}H_{14}$	135-01-3	100	500	ppm	
99	o-Xylene	C_8H_{10}	95-47-6	500	2000	ppm	
100	p-Diethylbenzene (1,4-diethylbenzene)	$C_{10}H_{14}$	105-05-5	100	500	ppm	
101	Phenyl acetylene (1-Phenylethyne)	C_8H_6	536-74-3	200	1000	ppm	
102	Propylbenzene	C_9H_{12}	103-65-1	NB	NB	ppm	
103	p-Xylene	C_8H_{10}	106-42-3	500	2000	ppm	
104	Styrene	C_8H_8	100-42-5	500	2000	ppm	
105	Tetraline (1,2,3,4-Tetrahydronaphthalene; Bacticin; benzocyclohexan	$C_{10}H_{12}$	119-64-2	NB	NB	ppm	
106	Toluene	C_7H_8	108-88-3	200	2000	ppm	
107	trans-1,4-Dimethylcyclohexane	C_8H_{16}	2207-04-7	NB	NB	ppm	
108	α-Methylstyrene	C_9H_{10}	98-83-9	200	2000	ppm	
109	α-Pinene	$C_{10}H_{16}$	80-56-8	200	500	ppm	
110	β-Pinene	$C_{10}H_{16}$	127-91-3	200	500	ppm	
	Acids and derivatives						
111	1,4-Butanediol dimethacrylate (BDDMA)	$C_{12}H_{18}O_4$	2082-81-7	NB	NB	ppm	
112	1-Ethoxy-2-propyl acetate (2-Acetoxy-1-ethoxypropane)	$C_7H_{14}O_3$	54839-24-6	NB	NB	ppm	
113	1-Methoxy-2-propyl acetate	$C_6H_{12}O_3$	108-65-6	100	500	ppm	
114	2-(2-Butoxyethoxy)ethyl acetate	$C_{10}H_{20}O_4$	124-17-4	100	500	ppm	
115	2-Butoxyethyl acetate	$C_8H_{16}O_3$	112-07-2	100	500	ppm	
116	2-Ethoxyethyl acetate (Cellosolve acetate)	$C_6H_{12}O_3$	111-15-9	100	500	ppm	
117	2-Ethylhexyl acrylate	$C_{11}H_{20}O_2$	103-11-7	NB	NB	ppm	
118	2-Hydroxybutyl acetate	$C_6H_{12}O_3$	24469-20-3	NB	NB	ppm	
119	2-Methoxy-1-propyl acetate	$C_6H_{12}O_3$	70657-70-4	NB	NB	ppm	
120	2-Methoxyethyl acetate (Methyl cellosolve acetate)	$C_5H_{10}O_3$	110-49-6	100	500	ppm	
121	3-Methoxybutyl acetate	$C_7H_{14}O_3$	4435-53-4	NB	NB	ppm	
122	Acetic acid	$C_2H_4O_2$	64-19-7	200	500	ppm	
123	Acetic acid anhydride	$C_4H_6O_3$	108-24-7	100	200	ppm	
124	Acetoacetic ester (Ethyl acetoacetate)	$C_6H_{10}O_3$	141-97-9	NB	NB	ppm	
125	Acrylic acid	$C_3H_4O_2$	79-10-7	100	500	ppm	
126	Butyl acetate	$C_6H_{12}O_2$	123-86-4	100	500	ppm	
127	Butyl acrylate (2-propenoic acid butyl ester)	$C_7H_{12}O_2$	141-32-2	NB	NB	ppm	
128	Butyl butyrate (Butanoic acid butyl ester, Butyric acid butyl ester, Buty	$C_8H_{16}O_2$	109-21-7	NB	NB	ppm	
129	Butyl glycolate (Glycolic acid butyl ester)	$C_6H_{12}O_3$	7397-62-8	NB	NB	ppm	
130	Butyl lactate (Butyl 2-hydroxypropanoate)	$C_7H_{14}O_3$	138-22-7	NB	NB	ppm	
131	Butyric acid (butanoic acid)	$C_4H_8O_2$	107-92-6	NB	NB	ppm	
132	Citraconic acid (Methylmaleic acid)	$C_5H_6O_4$	498-23-7	NB	NB	ppm	
133	Di(ethylene glycol) dimethacrylate (DEGDMA)	$C_{12}H_{18}O_5$	2358-84-1	NB	NB	ppm	
134	Diethyl carbonate (Carbonic acid diethyl ester)	$C_5H_{10}O_3$	105-58-8	50	200	ppm	
135	Dimethyl adipate	$C_8H_{14}O_4$	627-93-0	NB	NB	ppm	
136	Dimethyl carbonate (DCM; Methyl carbonate)	$C_3H_6O_3$	616-38-6	50	200	ppm	
137	Dimethyl glutarate (Pentanedioic acid dimethyl ester)	$C_7H_{12}O_4$	1119-40-0	NB	NB	ppm	
138	Dimethyl succinate (Succinic acid dimethyl ester)	$C_6H_{10}O_4$	106-65-0	NB	NB	ppm	
139	Di-tert-butyl dicarbonate	$C_{10}H_{18}O_5$	24424-99-5	NB	NB	ppm	
140	Ethyl acetate	$C_4H_8O_2$	141-78-6	100	500	ppm	
141	Ethyl acrylate	$C_5H_8O_2$	140-88-5	NB	NB	ppm	

142	Ethyl formate	$C_3H_6O_2$	109-94-4	NB	NB	ppm	
143	Ethyl lactate (Ethyl *α*-hydroxypropionate)	$C_5H_{10}O_3$	97-64-3	100	500	ppm	
144	Ethyl methacrylate (Ethyl 2-methylpropenoate)	$C_6H_{10}O_2$	97-63-2	NB	NB	ppm	
145	Ethyl methyl carbonate (Methyl ethyl carbonate)	$C_4H_8O_3$	623-53-0	50	200	ppm	
146	Ethyl-3-ethoxypropionate	$C_7H_{14}O_3$	763-69-9	100	500	ppm	
147	Ethylene carbonate (1,3-Dioxolan-2-one)	$C_3H_4O_3$	96-49-1	NB	NB	ppm	Calibration only for heated analyzer.
148	Formic acid	CH_2O_2	64-18-6	200	500	ppm	
149	Furfuryl acetate	$C_7H_8O_3$	623-17-6	NB	NB	ppm	
150	Heptanoic acid	$C_7H_{14}O_2$	111-14-8	NB	NB	ppm	
151	Hexanoic acid (caproic acid)	$C_6H_{12}O_2$	142-62-1	NB	NB	ppm	
152	Hexyl acetate	$C_8H_{16}O_2$	142-92-7	NB	NB	ppm	
153	Isobutyl acetate	$C_6H_{12}O_2$	110-19-0	NB	NB	ppm	
154	Isobutyl formate (2-Methylpropyl formate)	$C_5H_{10}O_2$	542-55-2	NB	NB	ppm	
155	Isobutyl methacrylate	$C_8H_{14}O_2$	97-86-9	NB	NB	ppm	
156	Isooctyl acrylate	$C_{11}H_{20}O_2$	29590-42-9	NB	NB	ppm	
157	Isopentyl acetate	$C_7H_{14}O_2$	123-92-2	100	500	ppm	
158	Isopropyl acetate	$C_5H_{10}O_2$	108-21-4	100	500	ppm	
159	Isopropyl lactate	$C_6H_{12}O_3$	63697-00-7	NB	NB	ppm	
160	Isovaleric acid (3-Methylbutyric acid, Isopentanoic acid, Delphinic aci	$C_5H_{10}O_2$	503-74-2	NB	NB	ppm	
161	Lactic acid	$C_3H_6O_3$	50-21-5	NB	NB	ppm	
162	Methacrylic acid	$C_4H_6O_2$	79-41-4	NB	NB	ppm	
163	Methyl-3-methoxypropionate (3-Methoxypropanoic acid methyl ester	$C_5H_{10}O_3$	3852-09-3	NB	NB	ppm	
164	Methyl acetate	$C_3H_6O_2$	79-20-9	100	500	ppm	
165	Methyl acrylate	$C_4H_6O_2$	96-33-3	100	500	ppm	
166	Methyl formate	$C_2H_4O_2$	107-31-3	100	500	ppm	
167	Methyl methacrylate	$C_5H_8O_2$	80-62-6	100	500	ppm	
168	Methyl valerate (Pentanoic acid methyl ester)	$C_6H_{12}O_2$	624-24-8	NB	NB	ppm	
169	Pentyl acetate (Banana oil)	$C_7H_{14}O_2$	628-63-7	100	500	ppm	
170	Propionic acid	$C_3H_6O_2$	79-09-4	100	500	ppm	
171	Propyl acetate	$C_5H_{10}O_2$	109-60-4	100	500	ppm	
172	Propylene carbonate (4-Methyl-1,3-dioxolan-2-one)	$C_4H_6O_3$	108-32-7	NB	NB	ppm	
173	tert-Butyl acetate	$C_6H_{12}O_2$	540-88-5	NB	NB	ppm	
174	trans-2-Hexenyl acetate	$C_8H_{14}O_2$	2497-18-9	NB	NB	ppm	
175	Valeric acid (Pentanoic acid)	$C_5H_{10}O_2$	109-52-4	NB	NB	ppm	
176	Vinyl acetate	$C_4H_6O_2$	108-05-4	100	500	ppm	
177	Vinylene carbonate (1,3-Dioxol-2-one)	$C_3H_2O_3$	872-36-6	NB	NB	ppm	Calibration only for heated analyzer.
	Aldehydes						
178	2-Ethyl-2-hexenal	$C_8H_{14}O$	645-62-5	NB	NB	ppm	
179	2-Ethylacrolein (2-Ethylacrylaldehyde)	C_5H_8O	922-63-4	NB	NB	ppm	
180	2-Ethylhexylaldehyde (2-Ethylhexanal)	$C_8H_{16}O$	123-05-7	200	1000	ppm	
181	2-Methylbutylaldehyde	$C_5H_{10}O$	96-17-3	NB	NB	ppm	
182	5-Hydroxymethyl-2-furfural (5-Hydroxymethyl-2-furaldehyde)	$C_6H_6O_3$	67-47-0	NB	NB	ppm	
183	5-Methylfurfural (5-Methyl-2-furaldehyde)	$C_6H_6O_2$	620-02-0	100	500	ppm	
184	Acetaldehyde	C_2H_4O	75-07-0	200	1000	ppm	
185	Acrolein (Acrylic aldehyde)	C_3H_4O	107-02-8	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
186	Benzaldehyde	C_7H_6O	100-52-7	NB	NB	ppm	
187	Butylaldehyde (Butanal)	C_4H_8O	123-72-8	200	1000	ppm	
188	Citronellal	$C_{10}H_{18}O$	106-23-0	NB	NB	ppm	
189	Crotonaldehyde	C_4H_6O	4170-30-3	NB	NB	ppm	
190	Formaldehyde	CH_2O	50-00-0	NB	NB	ppm	Maximum calibration 500ppm.
191	Furfural (2-Furaldehyde)	$C_5H_4O_2$	98-01-1	200	1000	ppm	
192	Glutaraldehyde	$C_5H_8O_2$	111-30-8	NB	NB	ppm	
193	Hexanal (Hexanaldehyde)	$C_6H_{12}O$	66-25-1	100	500	ppm	
194	Isobutyraldehyde (2-Methylpropanal)	C_4H_8O	78-84-2	200	1000	ppm	
195	Isovaleraldehyde	$C_5H_{10}O$	590-86-3	NB	NB	ppm	
196	Methacrylaldehyde (2-Methyl-2-propenal)	C_4H_6O	78-85-3	200	1000	ppm	
197	Nonanal	$C_9H_{18}O$	124-19-6	NB	NB	ppm	
198	Octanal (Caprylic aldehyde)	$C_8H_{16}O$	124-13-0	100	500	ppm	
199	o-Phthaldehyde (OPA)	$C_8H_6O_2$	643-79-8	NB	NB	ppm	Only non-instrument specific references.
200	o-Tolualdehyde	C_8H_8O	529-20-4	200	1000	ppm	
201	Pentanal (Pentanaldehyde; Valeraldehyde; Valeric aldehyde)	$C_5H_{10}O$	110-62-3	NB	NB	ppm	
202	Propionaldehyde (Propanal)	C_3H_6O	123-38-6	200	1000	ppm	
203	trans-2-Nonenal	$C_9H_{16}O$	18829-56-6	NB	NB	ppm	
	Ketones						
204	2,3-Butanedione (Diacetyl)	$C_4H_6O_2$	431-03-8	NB	NB	ppm	
205	2,3-Heptanedione	$C_7H_{12}O_2$	96-04-8	NB	NB	ppm	
206	2,3-Hexanedione	$C_6H_{10}O_2$	3848-24-6	NB	NB	ppm	
207	2,3-Pentanedione	$C_5H_8O_2$	600-14-6	NB	NB	ppm	
208	2,6-Dimethyl-4-heptanone	$C_9H_{18}O$	108-83-8	NB	NB	ppm	
209	2-Acetylfurane (2-Furyl methyl ketone)	$C_6H_6O_2$	1192-62-7	NB	NB	ppm	
210	2-Methylcyclohexanone	$C_7H_{12}O$	583-60-8	NB	NB	ppm	
211	2-Nonanone (Heptyl methyl ketone)	$C_9H_{18}O$	821-55-6	NB	NB	ppm	
212	4-Heptanone (Dipropyl ketone, Butyrone, DPK, Propyl ketone)	$C_7H_{14}O$	123-19-3	NB	NB	ppm	
213	4-Hydroxy-4-methyl-2-pentanone (Diacetone alcohol)	$C_6H_{12}O_2$	123-42-2	NB	NB	ppm	
214	4-Methyl-3-penten-2-one (Mesityl oxide)	$C_6H_{10}O$	141-79-7	NB	NB	ppm	
215	5-methyl-2-hexanone (MIAK; methyl isoamyl ketone)	$C_7H_{14}O$	110-12-3	NB	NB	ppm	

216	Acetoin (3-hydroxybutanone)	$C_4H_8O_2$	513-86-0	NB	NB	ppm	
217	Acetone	C_3H_6O	67-64-1	200	1000	ppm	
218	Acetophenone (Phenyl methyl ketone)	C_8H_8O	98-86-2	100	500	ppm	
219	Benzyl Methyl Ketone	$C_9H_{10}O$	103-79-7	NB	NB	ppm	
220	Carvone	$C_{10}H_{14}O$	2244-16-8	NB	NB	ppm	
221	Cyclohexanone (Cyclohexyl ketone)	$C_6H_{10}O$	108-94-1	100	500	ppm	
222	Cyclopentanone	C_5H_8O	120-92-3	NB	NB	ppm	
223	Diethyl ketone (DEK; 3-Pentanone)	$C_5H_{10}O$	96-22-0	200	1000	ppm	
224	Diketene (4-methylideneoxetan-2-one , γ-methylenebutyrolactone)	$C_4H_4O_2$	674-82-8	NB	NB	ppm	
225	Isophorone (3,5,5-Trimethyl-2-cyclohexene-1-one, Isoforone, Isoacetc	$C_9H_{14}O$	78-59-1	NB	NB	ppm	
226	Menthone	$C_{10}H_{18}O$	3391-87-5	NB	NB	ppm	
227	Methyl butyl ketone (MBK; 2-Hexanone)	$C_6H_{12}O$	591-78-6	200	1000	ppm	
228	Methyl ethyl ketone (MEK, 2-butanone)	C_4H_8O	78-93-3	200	1000	ppm	
229	Methyl isobutyl ketone (MIBK; 4-Methyl-2-pentanone)	$C_6H_{12}O$	108-10-1	200	1000	ppm	
230	Methyl pentyl ketone (2-Heptanone)	$C_7H_{14}O$	110-43-0	200	1000	ppm	
231	Methyl propyl ketone (2-Pentanone)	$C_5H_{10}O$	107-87-9	200	1000	ppm	
232	Methyl vinyl ketone (3-Buten-2-one)	C_4H_6O	78-94-4	NB	NB	ppm	
	Alcohols						
233	1-(2-Butoxypropoxy)propan-2-ol	$C_{10}H_{22}O_3$	24083-03-2	NB	NB	ppm	
234	1,2-Propanediol (propylene glycol)	$C_3H_8O_2$	57-55-6	200	1000	ppm	
235	1,3-Butanediol	$C_4H_{10}O_2$	107-88-0	200	1000	ppm	
236	1,4-Butanediol (1,4-Dihydroxybutane)	$C_4H_{10}O_2$	110-63-4	NB	NB	ppm	
237	1-Butanol	$C_4H_{10}O$	71-36-3	200	1000	ppm	
238	1-Butoxy-2-propanol (1,2-Propylene glycol 1-monobutyl ether)	$C_7H_{16}O_2$	5131-66-8	200	1000	ppm	
239	1-Ethoxy-2-propanol	$C_5H_{12}O_2$	1569-02-4	NB	NB	ppm	
240	1-Heptanol	$C_7H_{16}O$	111-70-6	NB	NB	ppm	
241	1-Hexanol	$C_6H_{14}O$	111-27-3	NB	NB	ppm	
242	1-Pentanol (Amyl alcohol)	$C_5H_{12}O$	71-41-0	200	1000	ppm	
243	1-Propanol	C_3H_8O	71-23-8	200	1000	ppm	
244	1-Propoxy-2-propanol (Propylene glycol *n*-propyl ether)	$C_6H_{14}O_2$	1569-01-3	100	500	ppm	
245	2-Butanol (*sec*-Butyl alcohol)	$C_4H_{10}O$	78-92-2	200	1000	ppm	
246	2-Ethoxyethanol (Cellosolve)	$C_4H_{10}O_2$	110-80-5	100	500	ppm	
247	2-Ethylhexanol (2-EH; 2-Ethylhexan-1-ol)	$C_8H_{18}O$	104-76-7	NB	NB	ppm	
248	2-Methoxyethanol (methyl cellosolve)	$C_3H_8O_2$	109-86-4	100	500	ppm	
249	2-Methoxy-1-propanol (2-methoxypropanol)	$C_4H_{10}O_2$	1589-47-5	NB	NB	ppm	
250	2-Methyl-1-butanol	$C_5H_{12}O$	137-32-6	NB	NB	ppm	
251	2-Methyl-2-butanol	$C_5H_{12}O$	75-85-4	NB	NB	ppm	
252	4-Methoxy-1-butanol (Butylene glycol methyl ether)	$C_5H_{12}O_2$	111-32-0	NB	NB	ppm	
253	4-Methyl-2-pentanol	$C_6H_{14}O$	108-11-2	NB	NB	ppm	
254	Allylalcohol	C_3H_6O	107-18-6	NB	NB	ppm	
255	Benzylalcohol	C_7H_8O	100-51-6	200	1000	ppm	Calibration for heated analyzer only.
256	cis-3-Hexen-1-ol (leaf alcohol)	$C_6H_{12}O$	928-96-1	NB	NB	ppm	
257	Cyclohexanol	$C_6H_{12}O$	108-93-0	NB	NB	ppm	
258	Diethylene glycol (DEG)	$C_4H_{10}O_3$	111-46-6	NB	NB	ppm	
259	Diethylene glycol monoethyl ether acetate	$C_8H_{16}O_4$	112-15-2	100	500	ppm	
260	Diethylene glycol monomethyl ether (MDGE, 2-(2-Methoxyethoxy)eth	$C_5H_{12}O_3$	111-77-3	NB	NB	ppm	
261	Ethanol	C_2H_6O	64-17-5	500	2000	ppm	
262	Ethylene glycol (1,2-Ethanediol)	$C_2H_6O_2$	107-21-1	200	1000	ppm	
263	Furfuryl alcohol (2-Furan methanol)	$C_5H_6O_2$	98-00-0	200	1000	ppm	
264	Glycerol (1,2,3-Propanetriol)	$C_3H_8O_3$	56-81-5	NB	NB	ppm	
265	Isobutanol (2-Methyl-1-propanol)	$C_4H_{10}O$	78-83-1	200	1000	ppm	
266	Isoeugenol (2-Methoxy-4-propenylphenol)	$C_{10}H_{12}O_2$	97-54-1	NB	NB	ppm	
267	Isopentyl alcohol (Isoamyl alcohol; Isopentanol; 3-Methyl-1-butanol)	$C_5H_{12}O$	123-51-3	200	1000	ppm	
268	Isopropanol (2-Propanol; Isopropyl alcohol)	C_3H_8O	67-63-0	200	1000	ppm	
269	Linalool (3,7-Dimethyl-1,6-octadien-3-ol)	$C_{10}H_{18}O$	78-70-6	NB	NB	ppm	
270	m-Cresol (3-Methyl phenol)	C_7H_8O	108-39-4	200	1000	ppm	
271	Menthol (2-Isopropyl-5-methylcyclohexanol, Hexahydrothymol)	$C_{10}H_{20}O$	1490-04-6	NB	NB	ppm	
272	Methanol	CH_4O	67-56-1	500	2000	ppm	
273	o-Cresol (2-Methyl phenol)	C_7H_8O	95-48-7	200	1000	ppm	
274	p-Cresol (4-Methyl phenol)	C_7H_8O	106-44-5	200	1000	ppm	
275	Phenol	C_6H_6O	108-95-2	200	1000	ppm	
276	Pinacolyl alcohol (3,3-Dimethyl-2-butanol)	$C_6H_{14}O$	464-07-3	200	1000	ppm	
277	Propargyl alcohol	C_3H_4O	107-19-7	NB	NB	ppm	
278	t-Butanol (1,1-Dimethyl ethanol)	$C_4H_{10}O$	75-65-0	200	1000	ppm	
279	Terpinen-4-ol [4-Methyl-1-(1-methylethyl)-3-cyclohexen-1-ol]	$C_{10}H_{18}O$	562-74-3	200	1000	ppm	
280	Terpineol	$C_{10}H_{18}O$	8000-41-7	200	1000	ppm	
281	Triethylene glycol (TEG)	$C_6H_{14}O_4$	112-27-6	NB	NB	ppm	Calibration for heated analyzer only.
	Ethers						
282	1,2-Dimethoxyethane (Ethylene glycol dimethyl ether)	$C_4H_{10}O_2$	110-71-4	100	500	ppm	
283	1,3-Dimethoxy-2-hydroxybenzene (Syringol)	$C_8H_{10}O_3$	91-10-1	NB	NB	ppm	
284	1,3-Dioxane (trimethylene glycol methylene ether)	$C_4H_8O_2$	505-22-6	NB	NB	ppm	
285	1,3-Dioxolane (1,3-Dioxacyclopentane)	$C_3H_6O_2$	646-06-0	NB	NB	ppm	
286	1,4-Butanediol vinyl ether	$C_6H_{12}O_2$	17832-28-9	NB	NB	ppm	
287	2,2-Dimethoxypropane	$C_5H_{12}O_2$	77-76-9	100	500	ppm	
288	2-Methoxyphenol (Guaiacol)	$C_7H_8O_2$	90-05-1	NB	NB	ppm	
289	Anisole (Methoxybenzene)	C_7H_8O	100-66-3	100	500	ppm	

290	Butyl methyl ether	$C_5H_{12}O$	628-28-4	NB	NB	ppm	
291	Di(ethylene glycol) ethyl ether (2-(2-Ethoxyethoxy)ethanol	$C_6H_{14}O_3$	111-90-0	NB	NB	ppm	
292	Dibutyl ether	$C_8H_{18}O$	142-96-1	NB	NB	ppm	
293	Diethyl ether (Ethoxy ethane)	$C_4H_{10}O$	60-29-7	100	500	ppm	
294	Diethylene glycol butyl ether [2-(2-Butoxyethoxy)ethanol]	$C_8H_{18}O_3$	112-34-5	100	500	ppm	Calibration for heated analyzer only.
295	Diethylene glycol dimethyl ether (Diglyme)	$C_6H_{14}O_3$	111-96-6	NB	NB	ppm	
296	Diisopropyl ether	$C_6H_{14}O$	108-20-3	100	500	ppm	
297	Dimethoxymethane (Methylene dimethyl ether; Methylal)	$C_3H_8O_2$	109-87-5	100	500	ppm	
298	Diphenyl ether	$C_{12}H_{10}O$	101-84-8	NB	NB	ppm	
299	Dipropylene glycol dimethyl ether	$C_8H_{18}O_3$	89399-28-0	NB	NB	ppm	
300	Dipropylene glycol monomethyl ether	$C_7H_{16}O_3$	34590-94-8	NB	NB	ppm	
301	Ethyl tert-butyl ether (ETBE; 2-Ethoxy-2-methyl-propane)	$C_6H_{14}O$	637-92-3	NB	NB	ppm	
302	Ethyl vinyl ether	C_4H_8O	109-92-2	100	500	ppm	
303	Ethylene glycol monobutyl ether (2-Butoxyethanol)	$C_6H_{14}O_2$	111-76-2	100	500	ppm	
304	Ethylene glycol monoisopropyl ether (2-Isopropoxyethanol)	$C_5H_{12}O_2$	109-59-1	NB	NB	ppm	
305	Eucalyptol (1,8-Cineole; 1,8-Epoxy-p-menthane; 1,3,3-Trimethyl-2-oxat	$C_{10}H_{18}O$	470-82-6	NB	NB	ppm	
306	Isosafrole	$C_{10}H_{10}O_2$	120-58-1	NB	NB	ppm	
307	Methyl ether (Dimethyl ether)	C_2H_6O	115-10-6	NB	NB	ppm	
308	Methyl salicylate (2-Hydroxybenzoic acid methyl ester)	$C_8H_8O_3$	119-36-8	100	500	ppm	
309	Methyl tert-butyl ether (MTBE; 2-Methoxy-2-methyl propane)	$C_5H_{12}O$	1634-04-4	100	500	ppm	
310	p-Dioxane (Glycol ethylene ether; 1,4-Dioxane)	$C_4H_8O_2$	123-91-1	100	500	ppm	
311	Tert-amyl methyl ether (TAME; 2-methoxy-2-methylbutane)	$C_6H_{14}O$	994-05-8	NB	NB	ppm	
312	α-Propylene glycol monomethyl ether (1-Methoxy-2-propanol)	$C_4H_{10}O_2$	107-98-2	100	500	ppm	
	Epoxy compounds						
313	2,5-Dimethylfuran	C_6H_8O	625-86-5	NB	NB	ppm	
314	2-Methylfuran	C_5H_6O	534-22-5	NB	NB	ppm	
315	Ethylene oxide (Oxirane; Epoxyethane)	C_2H_4O	75-21-8	NB	NB	ppm	
316	Furan (Furfuran)	C_4H_4O	110-00-9	200	1000	ppm	
317	Maleic anhydride	$C_4H_2O_3$	108-31-6	NB	NB	ppm	
318	Propylene oxide (Methyl oxirane; Epoxypropane)	C_3H_6O	75-56-9	200	1000	ppm	
319	Tetrahydrofuran (THF; 1,4-Epoxybutane)	C_4H_8O	109-99-9	200	1000	ppm	
	Sulfur compounds						
320	1,2-Ethanedithiol (1,2-Dimercaptoethane Dithioglycol Ethylene merca	$C_2H_6S_2$	540-63-6	NB	NB	ppm	
321	1-Butanethiol (Butyl mercaptan)	$C_4H_{10}S$	109-79-5	NB	NB	ppm	
322	2-Methylthiophene	C_5H_6S	554-14-3	NB	NB	ppm	
323	3-(Methylthio)propionaldehyde (3-Methylsulfanyl-propionaldehyde)	C_4H_8OS	3268-49-3	NB	NB	ppm	
324	3-Mercaptopropionic acid	$C_3H_6O_2S$	107-96-0	NB	NB	ppm	
325	Benzenethiol (Phenylthiol; Thiophenol)	C_6H_6S	108-98-5	NB	NB	ppm	
326	Carbon disulfide	CS_2	75-15-0	50	200	ppm	
327	Carbonyl sulfide	COS	463-58-1	NB	NB	ppm	
328	Diethyl sulfate (Sulfuric acid diethyl ester)	$C_4H_{10}O_4S$	64-67-5	NB	NB	ppm	
329	Dimethyl disulfide (DMDS)	$C_2H_6S_2$	624-92-0	200	1000	ppm	
330	Dimethyl sulfate (DMSO4; Sulfuric acid dimethyl ester)	$C_2H_6O_4S$	77-78-1	NB	NB	ppm	
331	Dimethyl sulfide (DMS)	C_2H_6S	75-18-3	200	1000	ppm	
332	Dimethyl sulfoxide	C_2H_6OS	67-68-5	100	500	ppm	
333	Ethylmercaptan (Ethanethiol)	C_2H_6S	75-08-1	100	500	ppm	
334	Mercaptoacetic acid (Thioglycolic acid)	$C_2H_4O_2S$	68-11-1	NB	NB	ppm	
335	Methylmercaptan (Methanethiol)	CH_4S	74-93-1	NB	NB	ppm	
336	Tetrahydrothiophene (Tetramethylene sulfide)	C_4H_8S	110-01-0	NB	NB	ppm	
337	Thiophene (Thiacyclopentadiene)	C_4H_4S	110-02-1	NB	NB	ppm	
	Nitrogen compounds						
338	(-)-Nicotine	$C_{10}H_{14}N_2$	54-11-5	NB	NB	ppm	
339	1,1-Dimethylhydrazine (Dimazine)	$C_2H_8N_2$	57-14-7	NB	NB	ppm	
340	1-(2-Aminoethyl)piperazine	$C_6H_{15}N_3$	140-31-8	NB	NB	ppm	
341	1,3-Dimethyl-2-imidazolidinone (N,N'-Dimethylethyleneurea)	$C_5H_{10}N_2O$	80-73-9	NB	NB	ppm	
342	1,4-Diaminobutane (Tetramethylenediamine, 1.4-Butanediamine)	$C_4H_{12}N_2$	110-60-1	NB	NB	ppm	
343	1,6-Hexamethylene diisocyanate	$C_8H_{12}N_2O_2$	822-06-0	NB	NB	ppm	
344	1-Formylpiperazine (1-Piperazinecarboxaldehyde)	$C_5H_{10}N_2O$	7755-92-2	NB	NB	ppm	
345	1-Methyl-2-pyrrolidinone	C_5H_9NO	872-50-4	NB	NB	ppm	
346	1-Methylimidazol	$C_4H_6N_2$	616-47-7	NB	NB	ppm	
347	1-Vinyl-2-pyrrolidinone (N-vinyl-2-pyrrolidinone)	C_6H_9NO	88-12-0	NB	NB	ppm	
348	2-(2-Aminoethoxy)ethanol (Diethylene glycol amine)	$C_4H_{11}NO_2$	929-06-6	NB	NB	ppm	
349	2-(Ethylamino)ethanol (EMEA; N-Ethylethanolamine)	$C_4H_{11}NO$	110-73-6	NB	NB	ppm	
350	2,3-Dimethylpyrazine	$C_6H_8N_2$	5910-89-4	NB	NB	ppm	
351	2,4,6-Trimethylpyridine	$C_8H_{11}N$	108-75-8	NB	NB	ppm	
352	2,4-Toluene diisocyanate	$C_9H_6N_2O_2$	584-84-9	NB	NB	ppm	
353	2,5-Dimethylpyrazine	$C_6H_8N_2$	123-32-0	NB	NB	ppm	
354	2,6-Diethylaniline	$C_{10}H_{15}N$	579-66-8	NB	NB	ppm	
355	2,6-Dimethylpyrazine	$C_6H_8N_2$	108-50-9	NB	NB	ppm	
356	2-Amino-1-butanol	$C_4H_{11}NO$	96-20-8	200	1000	ppm	
357	2-Amino-2-methylpropanol (β-Aminoisobutyl alcohol, AMP)	$C_4H_{11}NO$	124-68-5	NB	NB	ppm	
358	2-Dimethylaminoethanol (N,N-Dimethyl-2-hydroxyethylamine, N,N-Din	$C_4H_{11}NO$	108-01-0	NB	NB	ppm	
359	2-Ethyl-6-methylaniline	$C_9H_{13}N$	24549-06-2	NB	NB	ppm	
360	2-Methylaminoethanol (N-Methylethanolamine)	C_3H_9NO	109-83-1	NB	NB	ppm	
361	2-Methylpyrazine	$C_5H_6N_2$	109-08-0	NB	NB	ppm	
362	2-Methylpyridine (α-Picoline)	C_6H_7N	109-06-8	NB	NB	ppm	

363	3-Amino-1-propanol	C_3H_9NO	156-87-6	NB	NB	ppm	
364	3-Methylpyridine	C_6H_7N	108-99-6	NB	NB	ppm	
365	3-Picolyamine (3-(Aminomethyl)pyridine)	$C_6H_8N_2$	3731-52-0	NB	NB	ppm	
366	3-Pyridinecarboxaldehyde (Nicotinaldehyde)	C_6H_5NO	500-22-1	NB	NB	ppm	
367	4,N,N-Trimethylaniline	$C_9H_{13}N$	99-97-8	NB	NB	ppm	
368	Acetone cyanohydrin	C_4H_7NO	75-86-5	NB	NB	ppm	
369	Acetonitrile	C_2H_3N	75-05-8	NB	NB	ppm	
370	Acrylonitrile	C_3H_3N	107-13-1	200	1000	ppm	
371	Allylcyanide (3-Butenenitrile)	C_4H_5N	109-75-1	NB	NB	ppm	
372	Aniline (Benzenamine)	C_6H_7N	62-53-3	200	1000	ppm	
373	Benzonitrile (Phenyl cyanide)	C_7H_5N	100-47-0	NB	NB	ppm	
374	Benzylamine (α-Aminotoluene)	C_7H_9N	100-46-9	NB	NB	ppm	
375	Butyl isocyanate (1-Isocyanatobutane)	C_5H_9NO	111-36-4	NB	NB	ppm	
376	Butylamine (1-Butanamine)	$C_4H_{11}N$	109-73-9	200	1000	ppm	
377	Cyanogen (Dicyan)	C_2N_2	460-19-5	NB	NB	ppm	
378	Cyclohexylamine	$C_6H_{13}N$	108-91-8	NB	NB	ppm	
379	Dibutylamine	$C_8H_{19}N$	111-92-2	NB	NB	ppm	
380	Diethanolamine (DEA; 2,2'-Iminodiethanol, Bis(2-hydroxyethyl)amine)	$C_4H_{11}NO_2$	111-42-2	NB	NB	ppm	
381	Diethylamine	$C_4H_{11}N$	109-89-7	200	1000	ppm	
382	Diethylaminoethanol [2-(Diethylamino)-ethanol]	$C_6H_{15}NO$	100-37-8	200	1000	ppm	
383	Diethylenetriamine	$C_4H_{13}N_3$	111-40-0	100	500	ppm	
384	Dihexylamine	$C_{12}H_{27}N$	143-16-8	NB	NB	ppm	
385	Dimethylacetamide	C_4H_9NO	127-19-5	200	1000	ppm	
386	Dimethylamine	C_2H_7N	124-40-3	NB	NB	ppm	
387	Dimethylformamide (DMF)	C_3H_7NO	68-12-2	200	1000	ppm	
388	Ethanolamine (2-Aminoethanol; MEA)	C_2H_7NO	141-43-5	200	1000	ppm	
389	Ethylamine (1-Ethanamine)	C_2H_7N	75-04-7	NB	NB	ppm	
390	Ethylenediamine (Ethane-1,2-diamine)	$C_2H_8N_2$	107-15-3	100	500	ppm	
391	Ethylmorpholine	$C_6H_{13}NO$	100-74-3	NB	NB	ppm	
392	Hexylamine	$C_6H_{15}N$	111-26-2	NB	NB	ppm	
393	Hydrogen cyanide	HCN	74-90-8	100	500	ppm	
394	Isocyanic acid (Hydrogen isocyanate)	HNCO	75-13-8	NB	NB	ppm	Only non-instrument specific references.
395	Isopropyl isocyanate (1-Methylethyl isocyanate, 2-Isocyanatopropane	C_4H_7NO	1795-48-8	200	1000	ppm	
396	Isopropylamine (2-Propanamine)	C_3H_9N	75-31-0	200	1000	ppm	
397	Methacrylonitrile	C_4H_5N	126-98-7	NB	NB	ppm	
398	Methyl diethanolamine (MDEA)	$C_5H_{13}NO_2$	105-59-9	100	500	ppm	
399	Methyl isocyanate (Isocyanatomethane)	C_2H_3NO	624-83-9	NB	NB	ppm	
400	Methylamine	CH_5N	74-89-5	NB	NB	ppm	
401	Morpholine	C_4H_9NO	110-91-8	200	1000	ppm	
402	N,N-Diethylmethylamine (N-Methyldiethylamine)	$C_5H_{13}N$	616-39-7	NB	NB	ppm	
403	N,N-Dimethylaniline	$C_8H_{11}N$	121-69-7	100	500	ppm	
404	N,N-Dimethylethylamine (N-Ethyldimethylamine, DMEA)	$C_4H_{11}N$	598-56-1	NB	NB	ppm	
405	N,N-Dimethylisopropylamine (N,N-Dimethyl-2-propanamine)	$C_5H_{13}N$	996-35-0	NB	NB	ppm	
406	Nitrobenzene	$C_6H_5NO_2$	98-95-3	200	1000	ppm	
407	Nitroethane	$C_2H_5NO_2$	79-24-3	200	1000	ppm	
408	Nitromethane	CH_3NO_2	75-52-5	200	1000	ppm	
409	N-Methyl-1,3-diaminopropane (MAPA; 3-(Methylamino)propylamine; I	$C_4H_{12}N_2$	6291-84-5	NB	NB	ppm	
410	n-Methylmorpholine (4-Methylmorpholine)	$C_5H_{11}NO$	109-02-4	200	1000	ppm	
411	o-Nitrotoluene	$C_7H_7NO_2$	88-72-2	NB	NB	ppm	
412	o-Toluidine (2-Aminotoluene; 2-Methylbenzenamine)	C_7H_9N	95-53-4	NB	NB	ppm	
413	Phenyl isocyanate (Carbanil; Phenylcarbimide)	C_7H_5NO	103-71-9	NB	NB	ppm	
414	Phenyl isothiocyanate (Isothiocyanatobenzene)	C_7H_5NS	103-72-0	NB	NB	ppm	
415	Piperazine (Diethylenediamine; Hexahydropyrazine)	$C_4H_{10}N_2$	110-85-0	NB	NB	ppm	
416	Piperidine	$C_5H_{11}N$	110-89-4	200	1000	ppm	
417	Propanenitrile	C_3H_5N	107-12-0	NB	NB	ppm	
418	Propylamine (1-Aminopropane)	C_3H_9N	107-10-8	200	1000	ppm	
419	Pyridine	C_5H_5N	110-86-1	100	500	ppm	
420	Pyrrolidine (Azacyclopentane)	C_4H_9N	123-75-1	200	1000	ppm	
421	tert-Butylamine (2-Methyl-2-propanamine)	$C_4H_{11}N$	75-64-9	NB	NB	ppm	
422	Tetraethylurea (1,1,3,3-Tetraethylurea)	$C_9H_{20}N_2O$	1187-03-7	NB	NB	ppm	
423	Tetramethylurea (1,1,3,3-Tetramethylurea)	$C_5H_{12}N_2O$	632-22-4	NB	NB	ppm	
424	Triethanolamine	$C_6H_{15}NO_3$	102-71-6	NB	NB	ppm	
425	Triethylamine	$C_6H_{15}N$	121-44-8	NB	NB	ppm	
426	Trimethylamine	C_3H_9N	75-50-3	NB	NB	ppm	
	Chloro compounds (see also freons)						
427	1,1,1-Trichloroethane	$C_2H_3Cl_3$	71-55-6	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
428	1,1,2,2-Tetrachloroethane	$C_2H_2Cl_4$	79-34-5	200	1000	ppm	
429	1,1,2-Trichloroethane	$C_2H_3Cl_3$	79-00-5	200	1000	ppm	
430	1,1-Dichloroethane	$C_2H_4Cl_2$	75-34-3	200	1000	ppm	
431	1,2,3-Trichloropropane	$C_3H_5Cl_3$	96-18-4	200	1000	ppm	
432	1,2,4-Trichlorobenzene	$C_6H_3Cl_3$	120-82-1	NB	NB	ppm	
433	1,2-Dichlorobenzene (*o*-Dichlorobenzene)	$C_6H_4Cl_2$	95-50-1	200	1000	ppm	
434	1,2-Dichloroethane (Freon 150)	$C_2H_4Cl_2$	107-06-2	200	1000	ppm	
435	1,2-Dichloropropane (Propylene dichloride)	$C_3H_6Cl_2$	78-87-5	200	1000	ppm	
436	1,3-Dichloro-2-propanol	$C_3H_6Cl_2O$	96-23-1	NB	NB	ppm	
437	1,3-Dichlorobenzene	$C_6H_4Cl_2$	541-73-1	NB	NB	ppm	
438	1,3-Dichloropropane	$C_3H_6Cl_2$	142-28-9	NB	NB	ppm	

439	1,4-Dichlorobenzene (*p* -Dichlorobenzene)	$C_6H_4Cl_2$	106-46-7	NB	NB	ppm	
440	2,3-Dichloro-1-propanol	$C_3H_6Cl_2O$	616-23-9	NB	NB	ppm	
441	2,5-Dichlorophenol	$C_6H_4Cl_2O$	583-78-8	NB	NB	ppm	
442	2-Chloroethanol	C_2H_5ClO	107-07-3	NB	NB	ppm	
443	3-Chloro-2-methyl-1-propene (Methallyl chloride)	C_4H_7Cl	563-47-3	NB	NB	ppm	
444	3-Chloropropionyl chloride (3-Chloropropionic acid chloride; 3-Chloro	$C_3H_4Cl_2O$	625-36-5	NB	NB	ppm	
445	3-Chlorotoluene (1-Chloro-3-methylbenzene)	C_7H_7Cl	108-41-8	200	1000	ppm	
446	Acetyl chloride (Acetic chloride)	C_2H_3ClO	75-36-5	200	1000	ppm	
447	Allyl chloride (3-chloro-1-propene)	C_3H_5Cl	107-05-1	200	1000	ppm	
448	Benzyl chloride (*α* -Chlorotoluene)	C_7H_7Cl	100-44-7	200	1000	ppm	
449	Bis(trichloromethyl) carbonate (Triphosgene)	$C_3Cl_6O_3$	32315-10-9	NB	NB	ppm	
450	Butyl chloroformate (Butyl chlorocarbonate)	$C_5H_9ClO_2$	592-34-7	NB	NB	ppm	
451	Carbon tetrachloride (Freon 10)	CCl_4	56-23-5	NB	NB	ppm	
452	Chloroacetyl chloride	$C_2H_2Cl_2O$	79-04-9	NB	NB	ppm	
453	Chlorobenzene (Phenyl chloride)	C_6H_5Cl	108-90-7	200	1000	ppm	
454	Chloroform (Trichloromethane; Freon 20)	$CHCl_3$	67-66-3	200	1000	ppm	
455	Chloromethyl chloroformate	$C_2H_2Cl_2O_2$	22128-62-7	NB	NB	ppm	
456	cis-1,2-Dichloroethene	$C_2H_2Cl_2$	156-59-2	200	1000	ppm	
457	Dichloroacetyl chloride	C_2HCl_3O	79-36-7	NB	NB	ppm	
458	Dichloromethane (Methylene chloride; Freon 30)	CH_2Cl_2	75-09-2	200	1000	ppm	
459	Dimethylcarbamyl chloride (Dimethyl carbamic chloride)	C_3H_6ClNO	79-44-7	NB	NB	ppm	
460	Diphosgene	$C_2Cl_4O_2$	503-38-8	NB	NB	ppm	
461	Epichlorohydrin (Chloromethyloxirane)	C_3H_5ClO	106-89-8	NB	NB	ppm	
462	Ethyl chloride	C_2H_5Cl	75-00-3	NB	NB	ppm	
463	Ethyl chloroformate (Carbonochloridic acid ethyl ester; Cathyl chloric	$C_3H_5ClO_2$	541-41-3	NB	NB	ppm	
464	Hexachloro-1,3-butadiene	C_4Cl_6	87-68-3	200	1000	ppm	
465	Methyl chloride (Freon 40)	CH_3Cl	74-87-3	NB	NB	ppm	
466	Methyl chloroacetate	$C_3H_5ClO_2$	96-34-4	NB	NB	ppm	
467	Methyl chloroformate (Methyl chlorocarbonate)	$C_2H_3ClO_2$	79-22-1	NB	NB	ppm	
468	Pentachloroethane	C_2HCl_5	76-01-7	NB	NB	ppm	
469	Pentachlorophenol	C_6HCl_5O	87-86-5	NB	NB	ppm	
470	Phosgene	$COCl_2$	75-44-5	NB	NB	ppm	
471	Propyl chlorocarbonate (n-Propyl chloroformate)	$C_4H_7ClO_2$	109-61-5	NB	NB	ppm	
472	Tetrachloroethylene	C_2Cl_4	127-18-4	200	1000	ppm	
473	trans-1,2-Dichloroethene	$C_2H_2Cl_2$	156-60-5	200	1000	ppm	
474	Trichloroacetyl chloride	C_2Cl_4O	76-02-8	NB	NB	ppm	
475	Trichloroethylene (Trichlorethene)	C_2HCl_3	79-01-6	200	1000	ppm	
476	Vinyl chloride (Chloroethene)	C_2H_3Cl	75-01-4	NB	NB	ppm	
477	Vinylidene chloride (1,1-Dichloroethene)	$C_2H_2Cl_2$	75-35-4	200	1000	ppm	
	Fluoro compounds (see also freons)						
478	(1E)-1,3,3,3-Tetrafluoro-1-propene (HFO-1234ze)	$C_3H_2F_4$	29118-24-9	NB	NB	ppm	
479	1,1,1,2,2,3,5,5,5-Nonafluoropentane	$C_5H_3F_9$	141993-31-9	NB	NB	ppm	
480	1,1,1,2,3,4,4,5,5,5-Decafluoropentane	$C_5H_2F_{10}$	138495-42-8	NB	NB	ppm	
481	2,3,3,3-Tetrafluoropropene (HFO-1234yf)	$C_3H_2F_4$	754-12-1	NB	NB	ppm	
482	2-Fluorotoluene (1-Fluoro-2-methylbenzene)	C_7H_7F	95-52-3	NB	NB	ppm	
483	4-Ethoxy-1,1,1-trifluoro-3-buten-2-one	$C_6H_7F_3O_2$	17129-06-5	NB	NB	ppm	
484	Carbonyl difluoride	COF_2	353-50-4	NB	NB	ppm	12/2019: Availability uncertain. Non-instrument specific references enco
485	Desflurane (1,2,2,2-tetrafluoroethyl difluoromethyl ether)	$C_3H_2F_6O$	57041-67-5	NB	NB	ppm	
486	Ethyl fluoride (Fluoroethane, HFC-161)	C_2H_5F	353-36-6	NB	NB	ppm	
487	Ethyl trifluoroacetate	$C_4H_5F_3O_2$	383-63-1	NB	NB	ppm	
488	Fluorobenzene	C_6H_5F	462-06-6	NB	NB	ppm	
489	Hexafluoropropylene (Perfluoropropene)	C_3F_6	116-15-4	NB	NB	ppm	
490	Methyl fluoride (Fluoromethane, Freon 41)	CH_3F	593-53-3	NB	NB	ppm	
491	Octafluorocyclopentene (Perfluorocyclopentene)	C_5F_8	559-40-0	NB	NB	ppm	
492	Perfluoro-1,2-dimethylcyclohexane	C_8F_{16}	306-98-9	NB	NB	ppm	
493	Perfluoro-1,3-dimethylcyclohexane	C_8F_{16}	335-27-3	NB	NB	ppm	
494	Perfluoro-2-methylpentane	C_6F_{14}	355-04-4	NB	NB	ppm	
495	Perfluoroheptane	C_7F_{16}	335-57-9	NB	NB	ppm	
496	Perfluorohexane	C_6F_{14}	355-42-0	NB	NB	ppm	
497	Sevoflurane [2,2,2-trifluoro-1-(trifluoromethyl) ethyl ether]	$C_4H_3F_7O$	28523-86-6	NB	NB	ppm	
498	Tetrafluoroethylene (Perfluoroethylene)	C_2F_4	116-14-3	NB	NB	ppm	
499	trans-4-(Trifluoromethyl)perfluoro-2-pentene	C_6F_{12}	3709-71-5	NB	NB	ppm	
500	Trifluoroacetic acid	$C_2HF_3O_2$	76-05-1	NB	NB	ppm	
501	Trifluoroethene (Ethylene trifluoride)	C_2HF_3	359-11-5	NB	NB	ppm	
	Freons						
502	Dichlorofluoromethane (Freon 21)	$CHCl_2F$	75-43-4	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
503	Freon 11 (Trichloromonofluoromethane)	CCl_3F	75-69-4	NB	NB	ppm	
504	Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane)	$C_2Cl_3F_3$	76-13-1	NB	NB	ppm	
505	Freon 113a (1,1,1-Trichloro-2,2,2-trifluoroethane)	$C_2Cl_3F_3$	354-58-5	NB	NB	ppm	
506	Freon 114 (1,2-Dichloro-1,1,2,2-tetrafluoroethane)	$C_2Cl_2F_4$	76-14-2	NB	NB	ppm	
507	Freon 114 B2 (1,2-dibromo-1,1,2,2-tetrafluoroethane)	$C_2Br_2F_4$	124-73-2	NB	NB	ppm	
508	Freon 115 (Chloropentafluoroethane)	C_2ClF_5	76-15-3	NB	NB	ppm	
509	Freon 116 (Hexafluoroethane)	C_2F_6	76-16-4	NB	NB	ppm	
510	Freon 12 (Dichlorodifluoromethane)	CCl_2F_2	75-71-8	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
511	Freon 122 (1,2,2-Trichloro-1,1-difluoroethane)	$C_2HCl_3F_2$	354-21-2	NB	NB	ppm	
512	Freon 123 (1,1-Dichloro 2,2,2-trifluoroethane)	$C_2HCl_2F_3$	306-83-2	NB	NB	ppm	

513	Freon 124 (1-Chloro-1,2,2,2-tetrafluoroethane)	C_2HClF_4	2837-89-0	NB	NB	ppm	
514	Freon 125 (Pentafluoroethane)	C_2HF_5	354-33-6	NB	NB	ppm	
515	Freon 12B1 (Bromochlorodifluoromethane, Halon 1211)	$CBrClF_2$	353-59-3	NB	NB	ppm	
516	Freon 133a (1-Chloro-2,2,2-trifluoroethane)	$C_2H_2ClF_3$	75-88-7	NB	NB	ppm	
517	Freon 134a (1,1,1,2-Tetrafluoroethane)	$C_2H_2F_4$	811-97-2	NB	NB	ppm	
518	Freon 13B1 (Bromotrifluoromethane; Halon 1301)	$CBrF_3$	75-63-8	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
519	Freon 14 (Carbon tetrafluoride)	CF_4	75-73-0	NB	NB	ppm	
520	Freon 141b (1,1-Dichloro-1-fluoroethane)	$C_2H_3Cl_2F$	1717-00-6	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
521	Freon 142b (1-Chloro-1,1-difluoroethane)	$C_2H_3ClF_2$	75-68-3	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
522	Freon 143a (1,1,1-Trifluoroethane)	$C_2H_3F_3$	420-46-2	NB	NB	ppm	
523	Freon 152a (Difluoroethane; Ethylidene Difluoride)	$C_2H_4F_2$	75-37-6	NB	NB	ppm	
524	Freon 218 (Perfluoropropane)	C_3F_8	76-19-7	NB	NB	ppm	
525	Freon 22 (Chlorodifluoromethane)	$CHClF_2$	75-45-6	NB	NB	ppm	
526	Freon 23 (Trifluoromethane)	CHF_3	75-46-7	NB	NB	ppm	
527	Freon 236fa (1,1,1,3,3,3-Hexafluoropropane; HFC-236fa)	$C_3H_2F_6$	690-39-1	NB	NB	ppm	
528	Freon 32 (Difluoromethane)	CH_2F_2	75-10-5	NB	NB	ppm	
529	Freon C318 (Octafluorocyclobutane)	C_4F_8	115-25-3	NB	NB	ppm	
	Other organic compounds						
530	1,1,3,3-Tetramethyldisiloxane	$C_4H_{14}OSi_2$	3277-26-7	NB	NB	ppm	
531	1,3,5-Trioxane	$C_3H_6O_3$	110-88-3	NB	NB	ppm	
532	1-Bromopropane (Propyl bromide)	C_3H_7Br	106-94-5	NB	NB	ppm	
533	2-Bromopropane (Isopropyl bromide)	C_3H_7Br	75-26-3	NB	NB	ppm	
534	Bromoethane (Ethyl bromide)	C_2H_5Br	74-96-4	NB	NB	ppm	
535	Bromoform (Tribromomethane)	$CHBr_3$	75-25-2	NB	NB	ppm	
536	Chloropicrin (Trichloronitromethane, Nitrochloroform)	CCl_3NO_2	76-06-2	NB	NB	ppm	
537	Chlorpyrifos	$C_9H_{11}Cl_3NO_3PS$	2921-88-2	NB	NB	ppm	
538	Cyanogen chloride	CNCl	506-77-4	NB	NB	ppm	Only non-instrument specific references.
539	Decamethylcyclopentasiloxane (D5)	$C_{10}H_{30}O_5Si_5$	541-02-6	NB	NB	ppm	
540	Decamethyltetrasiloxane (L4)	$C_{10}H_{30}O_3Si_4$	141-62-8	NB	NB	ppm	
541	Diazinon	$C_{12}H_{21}N_2O_3PS$	333-41-5	NB	NB	ppm	
542	Dibromomethane (Methylene dibromide)	CH_2Br_2	74-95-3	NB	NB	ppm	
543	Diisopropyl methanephosphonate (DIMP)	$C_7H_{17}O_3P$	1445-75-6	NB	NB	ppm	
544	Dimethoate	$C_5H_{12}NO_3PS_2$	60-51-5	NB	NB	ppm	
545	Dimethyldichlorosilane	$C_2H_6Cl_2Si$	75-78-5	NB	NB	ppm	
546	Dimethyldiethoxysilane	$C_6H_{16}O_2Si$	78-62-6	NB	NB	ppm	
547	Dimethyldimethoxysilane	$C_4H_{12}O_2Si$	1112-39-6	NB	NB	ppm	
548	Dimethylvinylchlorosilane	C_4H_9ClSi	1719-58-0	NB	NB	ppm	
549	Divinyltetramethyldisiloxane	$C_8H_{18}OSi_2$	2627-95-4	NB	NB	ppm	
550	Dodecamethylcyclohexasiloxane (D6)	$C_{12}H_{36}O_6Si_6$	540-97-6	NB	NB	ppm	
551	Dodecamethylpentasiloxane (L5)	$C_{12}H_{36}O_4Si_5$	141-63-9	NB	NB	ppm	
552	Enflurane [2-Chloro-1-(difluoromethoxy)-1,1,2-trifluoroethane]	$C_3H_2ClF_5O$	13838-16-9	NB	NB	ppm	Only non-instrument specific references.
553	Ethylene dibromide (1,2-Dibromoethane)	$C_2H_4Br_2$	106-93-4	NB	NB	ppm	
554	Ethylmethyldichlorosilane	$C_3H_8Cl_2Si$	4525-44-4	NB	NB	ppm	
555	Halothane (Freon 123B1, 2-Bromo-2-chloro-1,1,1-trifluoroethane)	$C_2HBrClF_3$	151-67-7	NB	NB	ppm	
556	Heptamethyltrisiloxane	$C_7H_{22}O_2Si_3$	1873-88-7	NB	NB	ppm	
557	Hexamethylcyclotrisiloxane (D3)	$C_6H_{18}O_3Si_3$	541-05-9	NB	NB	ppm	
558	Hexamethyldisilazane [1,1,1-Trimethyl-N-(trimethylsilyl)-silanamine]	$C_6H_{19}NSi_2$	999-97-3	NB	NB	ppm	
559	Hexamethyldisiloxane (L2)	$C_6H_{18}OSi_2$	107-46-0	NB	NB	ppm	
560	Isoflurane (1-Chloro-2,2,2-trifluoroethyl difluoromethyl ether)	$C_3H_2ClF_5O$	26675-46-7	NB	NB	ppm	
561	Malathion	$C_{10}H_{19}O_6PS_2$	121-75-5	NB	NB	ppm	
562	Methyl bromide (Bromomethane)	CH_3Br	74-83-9	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
563	Methyl iodide	CH_3I	74-88-4	NB	NB	ppm	
564	Methyldichlorosilane	CH_4Cl_2Si	75-54-7	NB	NB	ppm	
565	Methyltrichlorosilane	CH_3Cl_3Si	75-79-6	NB	NB	ppm	
566	Methylvinyldichlorosilane	$C_3H_6Cl_2Si$	124-70-9	NB	NB	ppm	
567	Octamethylcyclotetrasiloxane (D4)	$C_8H_{24}O_4Si_4$	556-67-2	NB	NB	ppm	
568	Octamethyltrisiloxane (L3)	$C_8H_{24}O_2Si_3$	107-51-7	NB	NB	ppm	
569	Pentamethyldisiloxane	$C_5H_{16}OSi_2$	1438-82-0	NB	NB	ppm	
570	Perfluoro-2-n-butyltetrahydrofuran	$C_8F_{16}O$	335-36-4	NB	NB	ppm	
571	Perfluoro-N-methylmorpholine	$C_5F_{11}NO$	382-28-5	NB	NB	ppm	
572	Perfluorotributylamine (Heptacosafluorotributylamine, Fluorinert FC-	$C_{12}F_{27}N$	311-89-7	NB	NB	ppm	
573	Perfluorotripentylamine (Fluorinert FC-70)	$C_{15}F_{33}N$	338-84-1	NB	NB	ppm	
574	Perfluorotripropylamine (Tri(perfluoropropyl)amine)	$C_9F_{21}N$	338-83-0	NB	NB	ppm	
575	Phenylmethyldichlorosilane	$C_7H_8Cl_2Si$	149-74-6	NB	NB	ppm	
576	Phenylphosphonous dichloride (Dichlorophenylphosphine)	$C_6H_5Cl_2P$	644-97-3	NB	NB	ppm	
577	Phenyltrichlorosilane	$C_6H_5Cl_3Si$	98-13-5	NB	NB	ppm	
578	p-Nitrofluorobenzene (4-fluoronitrobenzene)	$C_6H_4FNO_2$	350-46-9	NB	NB	ppm	
579	Propyltrichlorosilane	$C_3H_7Cl_3Si$	141-57-1	NB	NB	ppm	
580	tert-Butyl hydroperoxide	$C_4H_{10}O_2$	75-91-2	NB	NB	ppm	
581	Tertiary Butyl Dimethyl Silyl alcohol (tert-Butyldimethylsilanol)	$C_6H_{16}OSi$	18173-64-3	NB	NB	ppm	
582	Tetraethyl orthosilicate	$C_8H_{20}O_4Si$	78-10-4	NB	NB	ppm	
583	Tetramethyl orthosilicate (Tetramethoxysilane)	$C_4H_{12}O_4Si$	681-84-5	NB	NB	ppm	
584	Tetramethylsilane	$C_4H_{12}Si$	75-76-3	NB	NB	ppm	
585	Thiophosgene	CCl_2S	463-71-8	NB	NB	ppm	
586	Tributyl phosphate	$C_{12}H_{27}O_4P$	126-73-8	NB	NB	ppm	
587	Trichloromethanesulfenyl chloride	CCl_4S	594-42-3	NB	NB	ppm	

588	Triethyl borate	$C_6H_{15}BO_3$	150-46-9	NB	NB	ppm	
589	Triethyl phosphate	$C_6H_{15}O_4P$	78-40-0	NB	NB	ppm	
590	Triethylsilane	$C_6H_{16}Si$	617-86-7	NB	NB	ppm	
591	Trifluoroacetyl chloride	C_2ClF_3O	354-32-5	NB	NB	ppm	
592	Trimethoxysilane	$C_3H_{10}O_3Si$	2487-90-3	NB	NB	ppm	
593	Trimethyl borate (Trimethoxyborane)	$C_3H_9BO_3$	121-43-7	NB	NB	ppm	
594	Trimethylchlorosilane	C_3H_9ClSi	75-77-4	NB	NB	ppm	
595	Trimethylsilanol (Hydroxytrimethylsilane)	$C_3H_{10}OSi$	1066-40-6	NB	NB	ppm	
596	Vinyl bromide (1-Bromoethene, Bromoethylene, R1140 B1)	C_2H_3Br	593-60-2	NB	NB	ppm	
597	Vinyltrichlorosilane	$C_2H_3Cl_3Si$	75-94-5	NB	NB	ppm	
	Inorganic compounds						
598	Ammonia	NH_3	7664-41-7	500	5000	ppm	
599	Arsine	AsH_3	7784-42-1	NB	NB	ppm	
600	Boron trichloride	BCl_3	10294-34-5	NB	NB	ppm	
601	Boron trifluoride	BF_3	7637-07-2	NB	NB	ppm	
602	Carbon(12) dioxide	CO_2	124-38-9	NB	NB	ppm	
603	Carbon(13) dioxide	CO_2	1111-72-4	NB	NB	ppm	
604	Chlorine dioxide	ClO_2	10049-04-4	NB	NB	ppm	Only non-instrument specific qualitative references.
605	Deuterium oxide (Heavy water; Dideuterium oxide)	D_2O	7789-20-0	NB	NB	ppm	
606	Diborane	B_2H_6	19287-45-7	NB	NB	ppm	
607	Dichlorosilane	SiH_2Cl_2	4109-96-0	NB	NB	ppm	
608	Disilane	Si_2H_6	1590-87-0	NB	NB	ppm	
609	Germane	GeH_4	7782-65-2	NB	NB	ppm	
610	Germanium tetrachloride	$GeCl_4$	10038-98-9	NB	NB	ppm	
611	Hydrogen bromide	HBr	10035-10-6	NB	NB	ppm	Only non-instrument specific references.
612	Hydrogen chloride	HCl	7647-01-0	500	5000	ppm	
613	Hydrogen fluoride	HF	7664-39-3	NB	NB	ppm	Only non-instrument specific references.
614	Hydrogen peroxide	H_2O_2	7722-84-1	NB	NB	ppm	Only non-instrument specific references.
615	Nitric acid	HNO_3	7697-37-2	NB	NB	ppm	Only non-instrument specific references.
616	Nitrogen dioxide	NO_2	10102-44-0	500	5000	ppm	Maximum calibration 5%.
617	Nitrogen monoxide (Nitric oxide)	NO	10102-43-9	2000	10000	ppm	
618	Nitrogen trifluoride	NF_3	7783-54-2	NB	NB	ppm	
619	Oxygen difluoride	OF_2	7783-41-7	NB	NB	ppm	Only non-instrument specific references. Chemical not available.
620	Ozone	O_3	10028-15-6	NB	NB	ppm	Only non-instrument specific qualitative references.
621	Phosphine	PH_3	7803-51-2	NB	NB	ppm	
622	Phosphorus oxychloride	$POCl_3$	10025-87-3	NB	NB	ppm	
623	Phosphorus tribromide	PBr_3	7789-60-8	NB	NB	ppm	
624	Phosphorus trichloride	PCl_3	7719-12-2	NB	NB	ppm	
625	Silane (Silicon tetrahydride)	SiH_4	7803-62-5	NB	NB	ppm	
626	Silicon tetrachloride	$SiCl_4$	10026-04-7	NB	NB	ppm	
627	Silicon tetrafluoride	SiF_4	7783-61-1	NB	NB	ppm	
628	Sulfur dioxide	SO_2	7446-09-5	2000	10000	ppm	
629	Sulfur hexafluoride	SF_6	2551-62-4	NB	NB	ppm	
630	Sulfur trioxide	SO_3	7446-11-9	NB	NB	ppm	
631	Sulfuryl chloride (Sulfuryl dichloride)	SO_2Cl_2	7791-25-5	NB	NB	ppm	
632	Sulfuryl fluoride	SO_2F_2	2699-79-8	NB	NB	ppm	Only non-instrument specific references.
633	Thionyl chloride	Cl_2OS	7719-09-7	NB	NB	ppm	
634	Trichlorosilane	$SiHCl_3$	10025-78-2	NB	NB	ppm	
635	Tungsten hexafluoride	WF_6	7783-82-6	NB	NB	ppm	Only non-instrument specific references.
	Chemical warfare agents and derivatives ***						
636	Mustard gas [Bis(2-chloroethyl)sulphide]	$C_4H_8Cl_2S$	505-60-2	NB	NB	ppm	Only non-instrument specific references.
637	Sarin (*o* -Isopropyl methylphosphonofluoridate)	$C_4H_{10}FO_2P$	107-44-8	NB	NB	ppm	Only non-instrument specific references.
638	Soman (*o* -Pinacolyl methylphosphonofluoridate)	$C_7H_{16}FO_2P$	96-64-0	NB	NB	ppm	Only non-instrument specific references.
639	Chlorosoman (1,2,2-Trimethyl propyl methyl phosphonochloridate)	$C_7H_{16}ClO_2P$	7040-57-5	NB	NB	ppm	Only non-instrument specific references.
640	Tabun (*o* -Ethyl N,N-dimethyl phosphoramidocyanidate)	$C_5H_{11}N_2O_2P$	77-81-6	NB	NB	ppm	Only non-instrument specific references.
641	Lewisite (2-Chlorovinyldichloroarsine)	$C_2H_2AsCl_3$	541-25-3	NB	NB	ppm	Only non-instrument specific references.
642	VX (Methylphosphonothioic acid)	$C_{11}H_{26}NO_2PS$	50782-69-9	NB	NB	ppm	Only non-instrument specific references.
643	Diethyl methanephosphonate (DEMP)	$C_5H_{13}O_3P$	683-08-9	NB	NB	ppm	Only non-instrument specific references.
644	Dimethyl methylphosphonate (DMMP)	$C_3H_9O_3P$	756-79-6	NB	NB	ppm	Only non-instrument specific references.
645	Dimethyl phosphite (Dimethyl hydrogen phosphite)	$C_2H_7O_3P$	868-85-9	NB	NB	ppm	Only non-instrument specific references.
646	Diisopropyl methylphosphonate (DIMP)	$C_7H_{17}O_3P$	1445-75-6	NB	NB	ppm	Only non-instrument specific references.

Other components

Not all the components are included in the list above. Please contact Gasmet Technologies Oy for availability and ranges for the components not mentioned.

* GAS-REF-001 price applies only to components with maximum range indicated above.
** GAS-REF-002 price applies only to components with maximum range indicated above.
*** Very limited availability, subject to export limitations.
NB GAS-REF-003 components. Please ask for a price quotation for each component separately.