

Trace Source™ Permeation Tubes – Chemical Gas Standards List

3176	Acenaphthene
3025	Acetaldehyde
2033	Acetamide
3039	Acetic acid
3026	Acetone
2014	Acetonitrile
3184	Acetophenone
3004	Acetylene
▼ 3033	Acrolein
3202	Acrolein dimethyl acetal
3068	Acrylic acid
2009	Acrylonitrile
2004	Acrylonitrile-d3
▼♦ 3212	Allyl alcohol
4052	Allyl chloride
3250	2-Aminoacetophenone
2070	4-Aminobiphenyl
▼ 2003	Ammonia
▼ 2100	Ammonia (15N, 98%+, D3,98%)
3209	<i>n</i> -Amyl acetate
3198	Amyl acetate
3216	<i>tert</i> -Amyl alcohol
3199	Amyl alcohol
1042	<i>tert</i> -Amyl mercaptan
3213	<i>tert</i> -Amyl methyl ether
2028	Aniline
2072	<i>o</i> -Anisidine
3127	Anthracene
5005	Argon
▼ 4089	Arsenic trichloride
▼ 5014	Arsine
3061	Benzaldehyde
3018	Benzene
3220	Benzene-d ₆
3128	Benzofuran
3194	Benzoic acid
3251	Benzyl acetate
3108	Benzyl alcohol
4069	Benzyl chloride
1043	Benzyl mercaptan
3177	Bibenzyl
3190	Bicyclo[2.2.1]hepta-2,5-diene
3178	Biphenyl
▼m 4107	Boron trichloride

▼m 4022	Boron trifluoride
▼ 4004	Bromine
4086	1-Bromo-4-fluorobenzene
4059	1-Bromobutane
4083	Bromochloromethane
4103	Bromodichloromethane
4096	Bromoform
4106	Bromonitromethane
4098	1-Bromopropane
4081	2-Bromopropane
3085	1,2-Butadiene
3011	1,3-Butadiene
3009	<i>n</i> -Butane
3053	<i>n</i> -Butanol
3215	<i>sec</i> -Butanol
3048	<i>tert</i> -Butanol
3029	2-Butanone
3214	3-Buten-2-ol
3013	1-Butene
3014	<i>cis</i> -2-Butene
3015	<i>trans</i> -2-Butene
3043	<i>n</i> -Butyl acetate
3100	Butyl acrylate
3092	Butyl cellosolve
4087	<i>n</i> -Butyl chloride
4055	<i>tert</i> -Butyl chloride
3139	<i>tert</i> -Butyl ethyl ether
▼ 2038	Butyl isocyanate
1022	2-Butyl mercaptan
1015	<i>n</i> -Butyl mercaptan
1019	<i>tert</i> -Butyl mercaptan
3138	<i>tert</i> -Butyl methyl ether
2109	<i>n</i> -Butyl nitrate
2061	<i>n</i> -Butylamine
2110	<i>tert</i> -Butylamine
3219	Butylated hydroxytoluene
3179	Butylbenzene
3143	4- <i>tert</i> -Butyltoluene
3034	Butyraldehyde
3073	Butyric acid
3124	γ-Butyrolactone
2029	Butyronitrile
2103	Cadaverine
5002	Carbon dioxide
▼ 1005	Carbon disulfide

▼ 5001	Carbon Monoxide
4009	Carbon tetrachloride
▼m 4014	Carbonyl fluoride
▼ 1003	Carbonyl Sulfide
3153	3-Carene
3204	Catechol
3091	Cellosolve
3049	Cellosolve acetate
▼ 4001	Chlorine
▼ 4115	Chloroacetone
4038	Chlorobenzene
4085	Chlorobenzene-d5
4102	Chlorodibromomethane
4100	1,1,1-Chlorodifluoroethane
▼ 4093	2-Chloroethanol
4051	Bis(2-chloroethyl)ether
1027	2-Chloroethyl ethyl sulfide
1038	2-Chloroethyl methyl sulfide
1050	2-Chloroethyl phenyl sulfide
1028	2-Chloroethyl- (3-chloropropyl) sulfide
4012	Chloroform
4104	Chloriodomethane
4088	bis-(Chloromethyl) ether
4079	Chloromethyl methyl ether
4033	2-Chlorophenol
▼ 4049	Chloropicrin
4082	2-Chloropropane
4112	Chlorpyrifos
3070	<i>m</i> -Cresol
3106	<i>o</i> -Cresol
3107	<i>p</i> -Cresol
▼ 3065	Crotonaldehyde
3180	Cumene
▼ 2039	Cyanogen
2092	Cyanogen bromide
▼ 2040	Cyanogen chloride
2037	3-Cyanopyridine
3105	Cyclohexane
3117	Cyclohexanol
3035	Cyclohexanone
3131	Cyclopentane
3211	Cyclopropanecarboxaldehyde
3162	<i>p</i> -Cymene

▼= Special Packaging * =When Available
m=Monel Cylinder ♦ Uncertified only

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5046	Decamethylcyclopentasiloxane
3062	Decane
5023	Deuterium oxide
3144	Diacetone alcohol
2048	1,4-Diaminocyclohexane
2074	2,4-Diaminotoluene
1048	Dibutyl disulfide
1049	Dibutyl sulfide
4078	1,4-Dichloro-2-butene
4027	1,2-Dichlorobenzene
4072	1,3-Dichlorobenzene
4073	1,4-Dichlorobenzene
4048	1,1-Dichloroethane
4031	1,2-Dichloroethane
4067	<i>cis</i> -1,2-Dichloroethylene
4127	<i>trans</i> -1,2-Dichloroethylene
4101	1,1,1-Dichlorofluoroethane
4121	1,6-dichlorohexane
3247	Dichloromethane-d2
4047	1,2-Dichloropropane
4070	<i>cis</i> -1,3-Dichloropropene
4071	<i>trans</i> -1,3-Dichloropropene
▼m 4061	Dichlorosilane
4113	Dichlorvos
5029	Dicyclohexylmethylphosphonate
3140	Dicyclopentadiene
3028	Diethyl ether
5035	Diethyl ethylphosphonate
3210	Diethyl malonate
5033	Diethyl methylphosphonate
5054	O,S-Diethyl methylphosphonothioate
5038	Diethyl phosphite
2044	Diethylamine
1044	2-(Diethylamino)ethanethiol
3165	1,2-Diethylbenzene
5028	Diethyldimethylphosphoramidate
2018	Diethylenetriamine
2062	Diethylethanolamine
1031	Diethylmethylphosphonothioate
2088	3,5-Difluoroaniline
4090	1,3-Difluorobenzene
4084	1,4-Difluorobenzene
3233	Diisobutyl ketone
5052	Diisobutyl methylphosphonate
4111	Diisopropyl fluorophosphate
2008	Diisopropylamine
2051	2-(Diisopropylamino)ethanol
3167	1,4-Diisopropylbenzene
5016	Diisopropylmethylphosphonate
3222	2,6-Diisopropylphenol
2045	2,6-Diisopropylphenyl isocyanate
3221	1,2-Dimethoxyethane
3119	Dimethoxymethane

5021	Dimethyl carbonate
▼ 1007	Dimethyl disulfide
3027	Dimethyl ether
5024	Dimethyl ethoxysilane
5018	Dimethyl ethylphosphonate
2021	Dimethyl formamide
5017	Dimethyl methylphosphonate
5030	Dimethyl phosphite
3227	Dimethyl phthalate
▼ 1011	Dimethyl sulfate
1006	Dimethyl sulfide
1025	Dimethyl sulfone
1039	Dimethyl sulfoxide
1047	Dimethyl trisulfide
3189	2,3-Dimethyl-2-butene
2113	2,3-Dimethyl-2,3-dinitrobutane
2042	Dimethylacetamide
2005	Dimethylamine
2071	N,N-Dimethylaniline
3133	2,2-Dimethylbutane
2067	Dimethylethanolamine
3110	2,5-Dimethylfuran
▼ 2016	1,1-Dimethylhydrazine
3166	1,2-Dimethylnaphthalene
3172	2,3-Dimethylphenol
5039	Dimethylsilane
2111	2,6-Dinitrotoluene
2068	2,4-Dinitrotoluene
3045	1,4-Dioxane
5051	Dipinacolyl methylphosphonate
3125	Dipropylene glycol methyl ether
5025	Disilane
1030	1,4-Dithiane
4116	Dodecafluorocyclohexane
3145	Dodecane
3103	Dowtherm A
4039	Epichlorohydrin
3163	1,2-Epoxybutane
2096	Epsilon-Caprolactam
3002	Ethane
1026	1,2-Ethanedithiol
4126	4-Ethoxy-1,1,1-trifluoro-3-buten-2-one, 94%
3030	Ethyl acetate
3086	Ethyl acetylene
3097	Ethyl acrylate
3021	Ethyl alcohol
2075	Ethyl carbamate
4017	Ethyl chloride
1017	Ethyl disulfide
3141	Ethyl lactate
1010	Ethyl mercaptan
1013	Ethyl methyl sulfide
5043	Ethyl methylphosphonate
2046	Ethyl morpholine
3230	Ethyl octanoate
2035	Ethyl pyrazine

2026	3-Ethyl pyridine
1012	Ethyl sulfide
3235	Ethyl vanillin
2006	Ethylamine
2064	2-(Ethylamino)ethanol
3041	Ethylbenzene
3094	Ethylbenzene-d10
2065	Ethyldiethanolamine
3003	Ethylene
▼ 4054	Ethylene dibromide
3078	Ethylene glycol
▼ 3023	Ethylene oxide
2020	Ethylenediamine
▼ 2049	Ethyleneimine
3031	2-Ethylhexanol
3101	2-Ethylhexyl acrylate
4124	5-Ethylidene-2-norbornene
2036	2-Ethylimidazole
3244	4-Ethylphenol
3173	2-Ethyltoluene
3236	Eugenol
4058	Fluorobenzene
3024	Formaldehyde
2032	Formamide
3038	Formic acid
4025	Freon 11
4050	Freon 113
4056	Freon 114
4023	Freon 116
4040	Freon 12
4024	Freon 13
4037	Freon 21
4026	Freon 22
3104	Furan
3197	Furfural
5015	Germane
◆ 3158	Glutaraldehyde
3206	Glycerol
2106	Glycine
5008	Helium
3243	<i>trans, trans</i> -2,4- Heptadienal
3237	Heptanal
3126	Heptane
2056	Heptanenitrile
3142	2-Heptanone
2057	Heptyl cyanide
4032	Hexachloro-1,3-butadiene
4076	Hexachlorobenzene
3130	Hexadecane
3185	Hexaldehyde
5031	Hexamethylcyclotrisiloxane
5020	Hexamethyldisilazane
5026	Hexamethyldisiloxane
2080	Hexamethylene-1,6-diisocyanate
2114	Hexamethylenetetramine
3017	Hexane
2055	Hexanenitrile
3225	Hexanoic acid
3156	2-Hexanone
3109	1-Hexene

▼	2013	Hydrazine
	5009	Hydrogen
▼m	4007	Hydrogen bromide
▼m	4002	Hydrogen chloride
▼	2010	Hydrogen cyanide
▼m	4006	Hydrogen fluoride
▼	1002	Hydrogen sulfide
	3234	3-Hydroxy-3-methylbutene
	3192	p-Hydroxybenzaldehyde
	3181	Indan
	3182	Indene
	2101	Indole
	4042	Iodine
	4105	Iodoethane
	4132	Iodoethanol
	4125	2-Iodopropane
	3115	Isoamyl acetate
	3010	Isobutane
	3058	Isobutyl acetate
	3191	Isobutyl acrylate
	3055	Isobutyl alcohol
	4094	Isobutyl chloroformate
	1016	Isobutyl mercaptan
	3183	Isobutylbenzene
	3012	Isobutylene
	3063	Isobutyraldehyde
	3077	Isooctane
	3120	Isopentane
	3059	Isoprene
	3111	Isopropyl acetate
	3022	Isopropyl alcohol
	3052	Isopropyl ether
	1018	Isopropyl mercaptan
	3064	Isovaleraldehyde
	5010	Krypton
	3083	D-Limonene
	2093	2,4-Lutidine
	3254	3-Methoxyphenol
	1046	Malathion
	3051	Maleic anhydride
	3160	Menthol
	3231	L-Menthol
	3037	Mesitylene
	3066	Methacrolein
	3224	Methacrylic acid
	3001	Methane
	1045	Methanesulfonyl fluoride
	3020	Methanol
	3090	1-Methoxy-2-propanol
	3098	1-Methoxy-2-propanol acetate
	3218	2-Methoxybutane
	3123	2-(2-Methoxyethoxy)ethanol
	3081	2-Methoxyethyl ether
	4053	Methylphosphonic difluoride
	3116	Methyl acetate
	3007	Methyl acetylene
	3113	Methyl acrylate
	3082	Methyl benzoate
▼	4015	Methyl bromide

	3095	Methyl cellosolve
	3096	Methyl cellosolve acetate
	4003	Methyl chloride
	4029	Methyl chloroform
▼♦	4114	Methyl chloroformate
	3135	Methyl cyclopentane
▼	2017	Methyl hydrazine
▼	4041	Methyl iodide
	3044	Methyl isobutyl ketone
▼*	2030	Methyl isocyanate
	3118	Methyl isopropyl ketone
▼	2050	Methyl isothiocyanate
▼	1004	Methyl mercaptan
	3114	Methyl methacrylate
	2034	2-Methyl pyrazine
	2027	3-Methyl pyridine
	2041	N-Methyl pyrrolidinone
	3074	Methyl salicylate
	3075	3-Methyl valeric acid
	3067	Methyl vinyl ketone
	3200	2-Methyl-1-butanol
	3201	3-Methyl-1-butanol
	2117	4-Methyl-2-Nitrophenol
	2115	2-Methyl-4-nitrophenol
	3249	2-Methyl-4(3H)-quinazolinone
	2007	Methylamine
	2052	2-(Methylamino)ethanol
	3226	1-Methylbutadiene
	3205	2-Methylbutanal
	3240	2-Methylbutyric acid
	3241	3-Methylbutyric acid
	2063	Methyldiethanolamine
	4077	Methylene bromide
	4028	Methylene chloride
	3169	1-Methylnaphthalene
	3174	2-Methylnaphthalene
	3134	2-Methylpentane
	4057	Methylphosphonic dichloride
	3164	α-Methylstyrene
	1051	2-Methylthiophene
	1052	3-Methylthiophene
	1024	3-(Methylthio)propionaldehyde
	2015	Monoethanolamine
	2095	Morpholine
	3152	Myrcene
	3040	Naphthalene
	5007	Neon
	2054	Nicotine
	2022	Nitric acid
	2081	Nitric acid-d
	2086	Nitric acid, 15N, 18O
	2001	Nitric Oxide
	2082	Nitric-15N-acid
	2069	Nitrobenzene
	2112	4-Nitrotoluene
	5004	Nitrogen
▼	2002	Nitrogen dioxide
	2094	2-Nitrophenol
	2116	4-Nitrophenol

	2060	N-Nitrosodiethylamine
	2076	N-Nitrosodimethylamine
	2077	N-Nitrosomorpholine
	2083	2-Nitrotoluene
	2012	Nitrous oxide
	3253	1-Nonanal
	3137	n-Nonane
	3228	o-Chlorobenzylidene malonitrile
	5053	O,S-Diisobutyl methylphosphonothiolate
	4021	Octafluoropropane
	5044	Octamethylcyclotetrasiloxane
▼	3229	Octanal
	3136	n-Octane
▼	2058	Octyl cyanide
	3239	Oxalic acid
	5056	Oxaloacetic acid
	5003	Oxygen
	3223	Parathion
	4091	Pentafluorobenzene
	1023	Pentamethylene sulfide
	3016	Pentane
	2059	Pentanenitrile
	3157	2-Pentanone
	3132	1-Pentene
	4128	Perfluoro-1,2-dimethylcyclobutane
	4118	Perfluoro-1,2-dimethylcyclohexane
	4131	Perfluoro-1,3-dimethylcyclohexane
	4117	Perfluoro (methylcyclohexane)
	4122	1,2 Perfluorodimethylcyclobutane
▼*	4046	Perfluoroisobutylene
	4130	Perfluoromethylcyclopentane
	2053	Perfluorotributylamine
	3069	Phenol
▼m	4013	Phosgene
▼	5013	Phosphine
	5042	Phosphoric acid
▼	4060	Phosphorus oxychloride
▼	4109	Phosphorus trichloride
	3155	Pinacolone
	3147	Pinacolyl alcohol
	5027	Pinacolyl methylphosphonate
	3122	α-Pinene
	3154	β-Pinene
	2108	Piperazine
	2043	Piperidine
	3008	Propadiene
	3005	Propane
	3079	1,2-Propanediol
	3046	Propionaldehyde
	3072	Propionic acid
	2023	Propionitrile
	3057	n-Propyl acetate
	3054	Propyl alcohol

3056	<i>n</i> -Propyl benzene
3217	Propyl ether
1014	<i>n</i> -Propyl mercaptan
2087	Propylamine
3006	Propylene
3071	Propylene oxide
2099	1,2-Propyleneimine
2102	Putrescine
2024	Pyridine
2107	Pyridine-d5
2085	Pyrrole
2105	Pyruvic acid
2031	Quinoline
▼ 5022	Silane
4065	Silicon tetrachloride
▼m 4062	Silicon tetrafluoride
2098	Skatole
3032	Styrene
3089	Styrene oxide
1001	Sulfur dioxide
3099	Syringaldehyde
3188	α-Terpinene
4075	1,1,2,2-Tetrachloroethane
4035	Tetrachloroethylene
3146	Tetradecane
5019	Tetraethyl orthosilicate
4099	1,1,1,2-Tetrafluoroethane
3050	Tetrahydrobenzaldehyde
3060	Tetrahydrofuran
3148	Tetrahydrofurfuryl alcohol
1034	Tetrahydrothiophene

5045	1,1,3,3-Tetramethyldisiloxane
5012	Tetramethylsilane
1029	Thiodiglycol
▼ 4120	Thionyl chloride
1021	Thiophene
4119	Thiophosphoryl chloride
1035	1,4-Thioxane
3186	<i>m</i> -Tolualdehyde
3019	Toluene
2011	2,4-Toluene diisocyanate
2079	2,6-Toluene diisocyanate
3196	Toluene-d8
2073	<i>o</i> -Toluidine
3248	<i>trans</i> -2-Hexenal
3252	<i>trans</i> -2-Octenal
3238	Tributyl phosphate
2066	Tributylamine
3256	2,4,6-Trichloroanisole
4074	1,2,4-Trichlorobenzene
4068	1,1,2-Trichloroethane
4036	Trichloroethylene
4080	1,2,3-Trichloropropane
4097	Trichlorosilane
3257	Tricresyl phosphate
3150	Tridecane
2097	Triethanolamine
3112	Triethyl phosphate
5032	Triethyl phosphite
2078	Triethylamine
2019	Triethylenetetramine

5055	Triethylsilane
4092	Trifluoroacetic acid
3203	1,1,3-Trimethoxypropane
5034	Trimethyl phosphite
2047	Trimethylamine
3175	1,2,3-Trimethylbenzene
3129	1,2,4-Trimethylbenzene
3170	2,3,5-Trimethylnaphthalene
3171	2,3,5-Trimethylphenol
5040	Trimethylsilane
3245	Trimethylsilanol
3149	Undecane
3168	1-Undecene
3187	Valeraldehyde
3080	Vanillin
* 3093	Velcorin
3047	Vinyl acetate
4019	Vinyl bromide
4020	Vinyl chloride
3084	4-Vinyl cyclohexene
4064	Vinyl fluoride
3102	Vinylcyclohexene monoxide
4030	Vinylidene chloride
2025	4-Vinylpyridine
5011	Water
3255	Whiskey lactone
5006	Xenon
3042	<i>m</i> -Xylene
3076	<i>o</i> -Xylene
3036	<i>p</i> -Xylene
3246	<i>o</i> -Xylene-d10