

## Trace Source™ Permeation Tubes – Chemical Gas Standards List

s	3176	Acenaphthene
	3025	Acetaldehyde
s	2033	Acetamide
	3039	Acetic acid
	3285	Acetoin
	3026	Acetone
	2014	Acetonitrile
	3184	Acetophenone
g	3004	Acetylene
▼	3033	Acrolein
	3068	Acrylic acid
	2009	Acrylonitrile
	2004	Acrylonitrile-d3
▼U	3212	Allyl alcohol
	4052	Allyl chloride
	3250	2-Aminoacetophenone
s	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
s	3127	Anthracene
g	5005	Argon
▼g	5014	Arsine
	3061	Benzaldehyde
	3018	Benzene
	3220	Benzene-d <sub>6</sub>
	3128	Benzofuran
s	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

▼mg	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
g	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
	3271	2-Butanone (1,1,1,3,3,3-5D)
	3214	3-Buten-2-ol
	3013	1-Butene
g	3014	<i>cis</i> -2-Butene
g	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
	3179	Butylbenzene
	3143	4- <i>tert</i> -Butyltoluene
	3034	Butyraldehyde
	3073	Butyric acid
	3124	γ-Butyrolactone
	2029	Butyronitrile
	2103	Cadaverine

g	5002	Carbon dioxide
▼	1005	Carbon disulfide
▼g	5001	Carbon Monoxide
	4009	Carbon tetrachloride
▼mg	4014	Carbonyl fluoride
▼	1003	Carbonyl Sulfide
	3153	3-Carene
	3278	β-Caryophyllene
s	3204	Catechol
	3263	α-Cedrene
	3091	Cellosolve
	3049	Cellosolve acetate
▼	4001	Chlorine
	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	Chloroiodomethane
	4088	bis-(Chloromethyl) ether
	4079	Chloromethyl methyl ether
	4033	2-Chlorophenol
▼	4049	Chloropicrin
	4082	2-Chloropropane
s	4112	Chlorpyrifos
	3070	<i>m</i> -Cresol
	3106	<i>o</i> -Cresol
	3107	<i>p</i> -Cresol
▼	3065	Crotonaldehyde
	3180	Cumene
▼	2039	Cyanogen
s	2092	Cyanogen bromide
s	2037	3-Cyanopyridine
	3105	Cyclohexane
	3117	Cyclohexanol
	3035	Cyclohexanone

▼ = Special Packaging \* = When Available s = Solid Compounds  
g = 575-Gases Only m = Monel Cylinder U = Uncertified only

KIN-TEK adds compounds on a regular basis.  
If you are needing a compound not on this list,  
contact us so we can confirm availability.

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3131	Cyclopentane
3211	Cyclopropanecarboxaldehyde
3162	<i>p</i> -Cymene
5046	Decamethylcyclopentasiloxane
3062	Decane
5023	Deuterium oxide
1056	DI-tert-Butyl Disulfide
3144	Diacetone alcohol
s 2048	1,4-Diaminocyclohexane
s 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
s 5029	Dicyclohexylmethylphosphonate
3140	Dicyclopentadiene
3288	Diethyl carbonate
4138	Diethyl chlorophosphonate
2121	Diethyl cyanomethylphosphonate
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
s 2088	3,5-Difluoroaniline
4090	1,3-Difluorobenzene
4084	1,4-Difluorobenzene
4136	1,1-Difluoroethane
s 3265	2,4-Dihydroxytoluene
4137	1,3-Diiodobenzene
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
s 5017	Dimethyl methylphosphonate
5030	Dimethyl phosphite
3227	Dimethyl phthalate
▼ 1011	Dimethyl sulfate
1006	Dimethyl sulfide
s 1025	Dimethyl sulfone
1039	Dimethyl sulfoxide
1047	Dimethyl trisulfide
3189	2,3-Dimethyl-2-butene
s 2113	2,3-Dimethyl-2,3-dinitrobutane
2042	Dimethylacetamide
2005	Dimethylamine
3264	4,8-Dimethyldecanal
2071	<i>N,N</i> -Dimethylaniline
3133	2,2-Dimethylbutane
2067	Dimethylethanolamine
3110	2,5-Dimethylfuran
▼ 2016	1,1-Dimethylhydrazine
3166	1,2-Dimethylnaphthalene
s 3172	2,3-Dimethylphenol
5039	Dimethylsilane
s 2111	2,6-Dinitrotoluene
s 2068	2,4-Dinitrotoluene
3045	1,4-Dioxane
5051	Dipinacolyl methylphosphonate
3125	Dipropylene glycol methyl ether
g 5025	Disilane
s 1030	1,4-Dithiane
* 4116	Dodecafluorocyclohexane
3145	Dodecane
3103	Dowtherm A
4039	Epichlorohydrin
3163	1,2-Epoxybutane
2096	Epsilon-Caprolactam
g 3002	Ethane
1026	1,2-Ethanedithiol
4126	4-Ethoxy-1,1,1-trifluoro-3-buten-2-one, 94%
3030	Ethyl acetate
g 3086	Ethyl acetylene
3097	Ethyl acrylate
3021	Ethyl alcohol
3282	Ethyl butyrate
s 2075	Ethyl carbamate
4017	Ethyl chloride
1017	Ethyl disulfide

3270	2-Ethyl-hex-2-enal
3141	Ethyl lactate
1010	Ethyl mercaptan
3289	Ethyl methyl carbonate
1013	Ethyl methyl sulfide
5043	Ethyl methylphosphonate
2046	Ethyl morpholine
3230	Ethyl octanoate
2035	Ethyl pyrazine
2026	3-Ethyl pyridine
1012	Ethyl sulfide
3283	Ethyl tiglate
s 3235	Ethyl vanillin
2006	Ethylamine
2064	2-(Ethylamino)ethanol
3041	Ethylbenzene
3094	Ethylbenzene-d10
2065	Ethyldiethanolamine
g 3003	Ethylene
▼ 4054	Ethylene dibromide
3287	Ethylene carbonate
3078	Ethylene glycol
▼ 3023	Ethylene oxide
2020	Ethylenediamine
3031	2-Ethylhexanol
3101	2-Ethylhexyl acrylate
4124	5-Ethylidene-2-norbornene
s 2036	2-Ethylimidazole
s 3244	4-Ethylphenol
3173	2-Ethyltoluene
3236	Eugenol
4058	Fluorobenzene
s 3024	Formaldehyde
2032	Formamide
3038	Formic acid
4025	Freon 11
4050	Freon 113
4056	Freon 114
g 4023	Freon 116
4040	Freon 12
g 4024	Freon 13
4037	Freon 21
4026	Freon 22
3104	Furan
3197	Furfural
g 5015	Germane
U 3158	Glutaraldehyde
3206	Glycerol
s 2106	Glycine
g 5058	0.5% HDO in D2O
5008	Helium
3237	Heptanal
3126	Heptane
2056	Heptanenitrile
3142	2-Heptanone
2057	Heptyl cyanide
4032	Hexachloro-1,3-butadiene
s 4076	Hexachlorobenzene
3130	Hexadecane
3185	Hexaldehyde
s 5031	Hexamethylcyclotrisiloxane
5020	Hexamethyldisilazane

	5026	Hexamethyldisiloxane
	2080	Hexamethylene-1,6-diisocyanate
s	2114	Hexamethylenetetramine
	3017	Hexane
	2055	Hexanenitrile
	3225	Hexanoic acid
	3156	2-Hexanone
	3109	1-Hexene
	3262	$\alpha$ -Humulene
▼	2013	Hydrazine
g	5009	Hydrogen
▼mg	4007	Hydrogen bromide
▼mg	4002	Hydrogen chloride
▼	2010	Hydrogen cyanide
▼m	4006	Hydrogen fluoride
▼	1002	Hydrogen sulfide
	3234	3-Hydroxy-3-methylbutene
s	3192	<i>p</i> -Hydroxybenzaldehyde
	3181	Indan
	3182	Indene
s	2101	Indole
	4134	1-Iodobutane
s	4042	Iodine
	4105	Iodoethane
	4132	Iodoethanol
	4125	2-Iodopropane
	5060	Iron Pentacarbonyl
	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
	3233	Isoeugenol
	3077	Isooctane
	3120	Isopentane
	3059	Isoprene
	3111	Isopropyl acetate
	3022	Isopropyl alcohol
	3052	Isopropyl ether
	1018	Isopropyl mercaptan
	3064	Isovaleraldehyde
g	5010	Krypton
s	3280	Levogluconan
	3083	D-Limonene
	3277	Linalool
	2093	2,4-Lutidine
	3254	3-Methoxyphenol
s	3276	Malonic acid
	1046	Malathion
s	3051	Maleic anhydride
s	3160	Menthol
s	3231	L-Menthol
	3037	Mesitylene
	3066	Methacrolein
	3224	Methacrylic acid
g	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
	3267	3-Methyl-2 (5H)-furanone
	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
▼U	4114	Methyl chloroformate
	3135	Methyl cyclopentane
	4135	Methyl dichlorophosphate
▼	2017	Methyl hydrazine
▼	4041	Methyl iodide
	3044	Methyl isobutyl ketone
▼s	2030	Methyl isocyanate
	3118	Methyl isopropyl ketone
▼s	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
	3269	2-Methyl-2-butenal
	3201	3-Methyl-1-butanol
s	2115	2-Methyl-4-Nitrophenol
s	2119	2-Methyl-6-Nitrophenol
s	2117	4-Methyl-2-Nitrophenol
s	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
s	3174	2-Methylnaphthalene
	3134	2-Methylpentane
s	4057	Methylphosphonic dichloride
	3164	$\alpha$ -Methylstyrene
	1051	2-Methylthiophene
	1052	3-Methylthiophene
	1024	3-(Methylthio)propionaldehyde
	2015	Monoethanolamine
	2095	Morpholine
	3152	Myrcene
s	3040	Naphthalene
g	5007	Neon

	2054	Nicotine
	2022	Nitric acid
	2081	Nitric acid-d
	2086	Nitric acid, 15N, 18O
g	2001	Nitric Oxide
	2082	Nitric-15N-acid
	2069	Nitrobenzene
	3273	Nitromethane
	2112	4-Nitrotoluene
g	5004	Nitrogen
▼	2002	Nitrogen dioxide
s	2094	2-Nitrophenol
s	2116	4-Nitrophenol
s	3279	4-Nitrocatechol
s	3274	2-Nitroresorcinol
	2060	N-Nitrosodiethylamine
	2076	N-Nitrosodimethylamine
s	2077	N-Nitrosomorpholine
	2083	2-Nitrotoluene
g	2012	Nitrous oxide
	3253	1-Nonanal
	3137	<i>n</i> -Nonane
	5053	<i>O,S</i> -Diisobutyl methylphosphonothiolate
	4133	Octafluorocyclobutane
g	4021	Octafluoropropane
	5044	Octamethylcyclotetrasiloxane
s	3268	<i>O</i> -Benzenedicarboxylic acid
▼	3229	Octanal
	3136	<i>n</i> -Octane
	3286	1-Octen-3-ol
▼	2058	Octyl cyanide
s	3239	Oxalic acid
s	5056	Oxaloacetic acid
g	5003	Oxygen
	3281	1,1,1,3,3-Pentachloropropane
	4091	Pentafluorobenzene
	1023	Pentamethylene sulfide
	3016	Pentane
	2059	Pentanenitrile
	3157	2-Pentanone
	3132	1-Pentene
	4118	Perfluoro-1,2-dimethylcyclohexane
	4131	Perfluoro-1,3-dimethylcyclohexane
	4117	Perfluoro (methylcyclohexane)
	4122	1,2-Perfluorodimethylcyclobutane
	4130	Perfluoromethylcyclopentane
	2053	Perfluorotributylamine
s	3069	Phenol
	3272	3-Phenyl-1-propanol
▼m	4013	Phosgene
▼g	5013	Phosphine
s	5042	Phosphoric acid
	3155	Pinacolone
	3147	Pinacolyl alcohol
	5027	Pinacolyl methylphosphonate
	3122	$\alpha$ -Pinene
	3154	$\beta$ -Pinene
s	2108	Piperazine

2043	Piperidine
3008	Propadiene
3005	Propane
3079	1,2-Propanediol
3046	Propionaldehyde
3072	Propionic acid
2023	Propionitrile
3057	<i>n</i> -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
s 2102	Putrescine
2024	Pyridine
2107	Pyridine-d5
2085	Pyrrrole
2105	Pyruvic acid
2031	Quinoline
▼g 5022	Silane
4065	Silicon tetrachloride
▼m 4062	Silicon tetrafluoride
s 2098	Skatole
3032	Styrene
3089	Styrene oxide
1001	Sulfur dioxide
s 3099	Syringaldehyde
3188	$\alpha$ -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
2120	1,1,3,3-Tetramethylguanidine
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
3252	<i>trans</i> -2-Octenal
3238	Tributyl phosphate
2066	Tributylamine
s 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
s 3266	2,4,6-Trihydroxytoluene
3203	1,1,3-Trimethoxypropane
5059	Trimethyl phosphate
5034	Trimethyl phosphite
2047	Trimethylamine
3175	1,2,3-Trimethylbenzene
3129	1,2,4-Trimethylbenzene
s 3170	2,3,5-Trimethylnaphthalene
s 3171	2,3,5-Trimethylphenol
5040	Trimethylsilane
3245	Trimethylsilanol
3284	Tripropyl phosphate
3149	Undecane
3168	1-Undecene
3187	Valeraldehyde
s 3080	Vanillin
* 3093	Velcorin
3047	Vinyl acetate
4019	Vinyl bromide
4020	Vinyl chloride
3084	4-Vinyl cyclohexene
g 4064	Vinyl fluoride
3102	Vinylcyclohexene monoxide
4030	Vinylidene chloride
2025	4-Vinylpyridine
5011	Water
3255	Whiskey lactone
g 5006	Xenon
3042	<i>m</i> -Xylene
3076	<i>o</i> -Xylene
3036	<i>p</i> -Xylene
3246	<i>o</i> -Xylene-d10
s 3275	2,6-Xylenol



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