KIN-TEK

The Calibration Specialists

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	*n*-Amyl acetate
	3198	Amyl acetate
	3216	*tert*-Amyl alcohol
	3199	Amyl alcohol
	1042	*tert*-Amyl mercaptan
	3213	*tert*-Amyl methyl ether
	2028	Aniline
	2072	*o*-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	*n*-Butane
	3053	*n*-Butanol
	3215	*sec*-Butanol
	3048	*tert*-Butanol
	3029	2-Butanone
	3214	3-Buten-2-ol
	3013	1-Butene
	3014	*cis*-2-Butene
	3015	*trans*-2-Butene
	3043	*n*-Butyl acetate
	3100	Butyl acrylate
	3092	Butyl cellosolve
	4087	*n*-Butyl chloride
	4055	*tert*-Butyl chloride
	3139	*tert*-Butyl ethyl ether
▼	2038	Butyl isocyanate
	1022	2-Butyl mercaptan
	1015	*n*-Butyl mercaptan
	1019	*tert*-Butyl mercaptan
	3138	*tert*-Butyl methyl ether
	2109	*n*-Butyl nitrate
	2061	*n*-Butylamine
	2110	*tert*-Butylamine
	3219	Butylated hydroxytoluene
	3179	Butylbenzene
	3143	4-*tert*-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	Chloroiodomethane
	4088	bis-(Chloromethyl) ether
	4079	Chloromethyl methyl ether
	4033	2-Chlorophenol
▼	4049	Chloropicrin
	4082	2-Chloropropane
	4112	Chlorpyrifos
	3070	*m*-Cresol
	3106	*o*-Cresol
	3107	*p*-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	*p*-Cymene

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

KIN-TEK Analytical, Inc.
504 Laurel St., La Marque, Tx 77568 USA
Ph. 409-938-3627 • 1-800-326-3627
sales@kin-tek.com

To learn more about KIN-TEK visit www.kin-tek.com

© 2018 KIN-TEK Analytical, Inc. 2018/11 Rev. 0002

	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	*cis*-1,2-Dichloroethylene
	4127	*trans*-1,2-Dichloroethylene
	4101	1,1,1-Dichlorofluoroethane
	4121	1,6-dichlorohexane
	3247	Dichloromethane-d2
	4047	1,2-Dichloropropane
	4070	*cis*-1,3-Dichloropropene
	4071	*trans*-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	*trans, trans*-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

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

To learn more about KIN-TEK visit www.kin-tek.com

© 2018 KIN-TEK Analytical, Inc. 2018/11 Rev. 0002

▼	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)propioaldehyde
	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

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

To learn more about KIN-TEK visit www.kin-tek.com

© 2018 KIN-TEK Analytical, Inc. 2018/11 Rev. 0002

	3056	*n*-Propyl benzene
	3217	Propyl ether
	1014	*n*-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	*m*-Tolualdehyde
	3019	Toluene
	2011	2,4-Toluene diisocyanate
	2079	2,6-Toluene diisocyanate
	3196	Toluene-d8
	2073	*o*-Toluidine
	3248	*trans*-2-Hexenal
	3252	*trans*-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	*m*-Xylene
	3076	*o*-Xylene
	3036	*p*-Xylene
	3246	*o*-Xylene-d10

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

To learn more about KIN-TEK visit www.kin-tek.com

© 2018 KIN-TEK Analytical, Inc. 2018/11 Rev. 0002