

T.C.E.Q. Calibration Standard

The Texas Commission on Environmental Quality (TCEQ) utilizes a 102 component calibration standard for the determination of multiple ambient air contaminants. Please see reverse side for a complete list of components.

Spectra supplies this standard to the TCEQ, formerly the TNRCC (Texas Natural Resource Commerce Commission), for their internal use. The TCEQ standard is manufactured using exacting micro-gravimetric techniques with all gravimetric measurements directly traceable to NIST (National Institute of Standards and Technology). For improved quality assurance Spectra maintains two distinct lots of raw materials allowing you to order two (2) independent calibration standards from Spectra.

Spectra offers these 102 components at the concentrations specified by the TCEQ.

The TCEQ calibration standard is supplied in a size 2A cylinder with a guaranteed stability of 12 months.

Regulator Recommendation

Various independent and Agency laboratories have indicated that to ensure repeatability with low level calibration gases it is best to utilize the same regulator for initial assay and for daily usage, thus minimizing the sources for potential variances and possible cross contamination. If a regulator is purchased along with the TCEQ standard, Spectra Gases will perform the initial assay and certification analysis utilizing the regulator and cylinder as a matched set.

Spectra Gases' model 7621 regulator is ideal for use with the TCEQ 102 component standard. Please see the equipment section for information on this and other gas handling equipment.

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Number following the components is the concentration in ppb v/v as specified by the TCEQ.

Acetylene 200 [74-86-2]	trans-2-Hexene 100 [4050-45-7]
Benzene 100 [71-43-2]	Isobutane 100 [75-28-5]
1-Butene 100 [106-98-9]	Isopentane 100 [78-78-4]
2-Butanone (MEK) 500 [78-93-3]	Isopropylbenzene (Cumene) 100 [98-82-8]
Bromomethane 100 [74-83-9]	Isooctane 100 [540-84-1]
1,3-Butadiene 100 [106-99-0]	2 Methyl 1,3 Butadiene (isoprene) 100 [78-79-5]
cis-2-Butene 100 [590-18-1]	3-Methyl-1-Butene 100 [563-45-1]
n-Butane 100 [106-97-8]	2-Methyl-2-Butene 100 [513-35-9]
trans-2-Butene 100 [624-64-6]	Methyl tert-Butyl Ether (MTBE) 100 [1634-04-4]
Butyl Acetate 500 [123-86-4]	Methylcyclohexane 100 [108-87-2]
Butyl Aldehyde 500 [123-72-8]	Methylcyclopentane 100 [96-37-7]
Carbon Tetrachloride 100 [56-23-5]	2-Methylheptane 100 [592-27-8]
Chlorobenzene 100 [108-90-7]	3-Methylheptane 100 [589-81-1]
Chloroform 100 [67-66-3]	2-Methylhexane 100 [591-76-4]
Chloromethane 100 [74-87-3]	3-Methylhexane 100 [589-34-4]
2-Chloropentane 100 [625-29-6]	2-Methyl-3-Hexanone 500 [7379-12-6]
2-Chloroprene 100 [126-99-8]	5-Methyl-2-Hexanone 500 [110-12-3]
Cyclohexane 100 [110-82-7]	Methyl Isobutyl Ketone (MIBK) 500 [108-10-1]
Cyclopentane 100 [287-92-3]	2-Methylpentane 100 [107-83-5]
Cyclopentene 100 [142-29-0]	3-Methylpentane 100 [96-14-0]
n-Decane 100 [124-18-5]	2-Methyl-1-Pentene 100 [763-29-1]
1,2-Dibromoethane (Ethylene Dibromide) 100 [106-93-4]	4-Methyl-1-Pentene 100 [691-37-2]
1,1-Dichloroethane 100 [75-34-3]	2-Methylpropanal 500 [78-84-2]
1,2-Dichloroethane (Ethylene Dichloride) 100 [107-06-2]	n-Nonane 100 [111-84-2]
1,1-Dichloroethylene 100 [75-35-4]	n-Octane 100 [111-65-9]
1,2-Dichloropropane 100 [78-87-5]	n-Pentane 200 [109-66-0]
cis-1,3-Dichloropropene 100 [10061-01-5]	1-Pentene 100 [109-67-1]
trans-1,3-Dichloropropene 100 [10061-02-6]	cis-2-Pentene 100 [627-20-3]
Dichlorodifluoromethane (Halocarbon 12) 100 [75-71-8]	trans-2-Pentene 100 [646-04-8]
Dichloromethane 100 [75-09-2]	3-Pentanone 500 [96-22-0]
p-Diethylbenzene 100 [105-05-5]	Propane 200 [74-98-6]
2,2-Dimethylbutane 100 [75-83-2]	Propene 200 [115-07-1]
2,3-Dimethylbutane 100 [79-29-8]	Propyl Acetate 500 [109-60-4]
2,3-Dimethylpentane 100 [565-59-3]	n-Propylbenzene 100 [103-65-1]
2,4-Dimethylpentane 100 [108-08-7]	Styrene 100 [100-42-5]
Dodecane 100 [112-40-3]	1,1,2,2-Tetrachloroethane 100 [79-34-5]
Ethane 200 [74-84-0]	Tetrachloroethylene 100 [127-18-4]
Ethyl Acetate 500 [141-78-6]	Toluene 100 [108-88-3]
Ethyl Benzene 100 [100-41-4]	1,1,1-Trichloroethane 100 [71-55-6]
m-Diethylbenzene 100 [141-93-5]	1,1,2-Trichloroethane 100 [79-00-5]
Ethylene 200 [74-85-1]	Trichloroethylene 100 [79-01-6]
o-Ethyltoluene 100 [611-14-3]	Trichlorofluoromethane (Freon 11) 100 [75-69-4]
m-Ethyltoluene 100 [620-14-4]	1,2,3-Trimethylbenzene 100 [526-73-8]
p-Ethyltoluene 100 [622-96-8]	1,2,4-Trimethylbenzene 100 [95-93-6]
n-Heptane 100 [142-82-5]	1,3,5-Trimethylbenzene 100 [108-67-8]
3-Heptanone 500 [106-35-4]	2,3,4-Trimethylpentane 100 [565-75-3]
n-Hexane 100 [110-54-3]	n-Undecane 100 [821-95-4]
2-Hexanone 500 [591-78-6]	Vinyl Chloride 100 [75-01-4]
3-Hexanone 500 [589-38-8]	o-Xylene 100 [95-47-6]
1-Hexene 100 [592-41-6]	m-Xylene 100 [108-38-3]
cis-2-Hexene 100 [592-43-8]	p-Xylene 100 [106-42-3]

NOTE: CAS numbers are in square brackets, i.e. [00-00-0]