

BTEX Calibration Standards

Environmental regulations require accurate, traceable low concentration organic gas calibration standards to calibrate instruments used in:

- Ambient air monitoring
- Infiltration studies
- Measurement of incinerator emissions
- Measurement of fugitive emissions from chemical processing equipment
- Measurement of industrial stationary sources
- Measurement of landfill gases

Spectra offers a four (4) component, BTEX Standard -1, a six (6) component, BTEX Standard - 2, and a seven (7) component, BTEX Standard - 3, calibration standards in concentrations from 100 ppb to 10 ppm in a balance gas of VOC zero grade nitrogen (N₂). All concentrations are directly traceable to NIST gravimetrically and analytically by comparison with NIST certified standards.

BTEX standards are available in a variety of cylinders; most common are the size 6A, 104 liters at 1800 psig and the 2A, 4000 liters at 2000 psig.

BTEX STANDARD - 1

Benzene [71-43-2]	Toluene [108-88-3]
Ethyl Benzene [100-41-4]	o-Xylene [95-47-6]

BTEX STANDARD - 2

Benzene [71-43-2]	m-Xylene [108-38-3]
Ethyl Benzene [100-41-4]	o-Xylene [95-47-6]
Toluene [108-88-3]	p-Xylene [106-42-3]

BTEX STANDARD - 3

Benzene [71-43-2]	m-Xylene [108-38-3]
Ethyl Benzene [100-41-4]	-Xylene [95-47-6]
Toluene [108-88-3]	p-Xylene [106-42-3]
Tert-butyl methyl ether	(MTBE) [1634-04-4]

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

SPECIFICATIONS

Blend Tolerance:	100 ppb to 1 ppm +/- 10%
	> 1 ppm to 10 ppm +/- 5%
Analytical Accuracy	100 ppb to 1 ppm +/- 5%
	> 1 ppm to 10 ppm +/- 2%
Stability	12 months

Please contact Spectra Environmental Division for information on other concentrations, tolerances, and cylinder sizes.

