

## Gaseous Mercury (Hg<sup>0</sup>) Calibration Standards

With current and proposed worldwide regulations mandating the monitoring and/or control of mercury emissions, it is extremely important to have a reliable standard for required periodic calibration of the monitoring equipment. Through the efforts of the Research and Development Program of Spectra Gases, and our propriety cylinder passivation procedures, a stable gaseous mercury calibration gas standard is now available.

Spectra supplies mercury calibration gas in high pressure, high volume cylinders. The mercury is present in the metallic state, Hg<sup>0</sup>, in a balance gas of research grade air.

Cylinder Size	2A
Cylinder Dimensions	8.0" dia. x 47.5" high (20 cm x 120 cm)
Cylinder Weight	50 pounds (23 kg)
Cylinder Internal Volume	1.06 ft <sup>3</sup> (30 liters)
Cylinder Gas Volume	141 ft <sup>3</sup> (4000 liters)
Cylinder Pressure	2000 psig (140 bar)
Concentration Range	up to 60 µg/m <sup>3</sup>
Stability Guarantee	(six) 6 months
Cylinder Outlet	CGA 660
Recommended Regulator	SGI Model 7622 (see below)

Spectra recommends that only a pre-conditioned, low internal volume regulator be utilized for mercury calibration gases.

Our SGI Model 7622 Miniature Regulator is well suited for use with mercury standards, providing a low flow rate with accurate pressure control. A metal diaphragm and KEL-F seat, along with pre-conditioning, make this regulator ideally suited for mercury calibration standards.

