Calibration Gases

The composition of the mixtures available is practically infinite. It is restricted only by the physical and chemical properties, health, safety norms and the Stability and quality of the final mixture. At SVCGPL we offer our clients any desired preparation tolerance and certification accuracy depending on the mixture components. We prepare mixture using highly accurate gravimetric / volumetric techniques traceable to National Physical Laboratory standard masses which complying with national & international standards & are traceable to NPL, India.

Appropriate Cylinder treatment and values are selected on chemical properties of mixtures & are checked by various state of art imported, indigenous instruments like gas chromatograph, analyzers equipped with the variety of detectors system (FID, TCD, FPD, PID), optional methods & various wet chemicals absolute methods for measurement as per international standards such as ASTM, IS or BIS

SVCGPL uses more than 3 advanced imported mass comparator balances which can weigh from heaviest of cylinders with accuracy of 0.001 gm and micro balances for micro gm weighing for specialized mfg high accuracy gravimetric mixtures and liquid mixtures with weights traceable to NPL, India.
Calibration gases are produced from pure raw materials, with known contents of impurities.

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A calibration gas is defined by homogeneous mixtures of gases with stated composition and certified concentration of each component with guaranteed uncertainty (certified accuracy) associated with the components over a certain period of time. Calibration gases are produced from pure raw materials, with known contents of impurities.