

SPECTRA PROTOCOL GASES

Compliance With 40CFR Parts 50, 58, 60, and 75

Description Parts 50, 58, 60, and 75 of 40CFR specify that gaseous pollutant concentration standards used for calibration and audit of continuous emission monitors (CEM) and ambient air quality analyzers be analyzed according to EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (EPA-600/R-97/121) revised September 1997.

Linde is a participant in the US EPA's PGUP and all of our EPA Protocol Gas Standards are manufactured, analyzed, and certified to meet or exceed all of the requirements of EPA-600/R-97/121.

HiQ® Specialty Gases The HiQ® specialty gases program from Linde supplies high purity gases, gas mixtures, precision engineered equipment and gas distribution systems, and services and support, to a wide range of industries employing specialty gases applications.

HiQ® products represent Linde's commitment to the highest available quality and global consistency across gases, equipment and services.

Specifications The following components and concentrations are covered by EPA-600/R-97/121 and are available from Linde Electronics and Specialty Gases as US EPA Protocol Gas Standards either singularly or in multi-component blends.

Component	Balance	Available Concentrations
CO ₂	Air	2000 ppm to 20%
CO ₂	N ₂	35 ppm to 20%
CO	Air	0.5 ppm to 6.25% ¹
CO	N ₂	0.5 ppm to 10%
H ₂ S	Air	25 ppm to 200 ppm
H ₂ S	N ₂	5 ppm to 200 ppm
CH ₄	Air	1 ppm to 1000 ppm
CH ₄	N ₂	1 ppm to 1000 ppm
NO	N ₂	0.5 ppm to 1%
NO ₂	Air/N ₂	25 ppm to 1000 ppm
O ₂	N ₂	1% to 23%
C ₃ H ₈	Air	1 ppm to 1.1% ¹
C ₃ H ₈	N ₂	1 ppm to 2%
SO ₂	Air	5 ppm to 4550 ppm
SO ₂	N ₂	0.5 ppm to 1%

¹ Flam/ox restricted at elevated concentrations

Linde Electronics and Specialty Gases

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