

SPECIFICATIONS

EPA PROTOCOL GASES

If you are a facility that is 40 CFR Part 75 or Part 60, EPA Protocol gases are important to you!

The regulations for daily calibrations, quarterly linearities, quarterly CGAs and for CEMS zero air material are the following::

Daily Calibrations & Quarterly Linearities: 40 CFR Part 75, Section 75.21(g) and Appendix A, Sections 2.1.1.5(c), 2.1.2.5(c), 2.1.3, and 5.1.4

Quarterly CGAs only: 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2 (3)

CEMS Zero Gas: 40 CFR Part 72.2 (zero air material)

Are you required to use EPA Protocol Gases for your Continuous Emissions Monitoring System (CEMS)?

FACILITY PERMIT	PART 75	PART 60
Daily Calibrations	Yes	No
Quarterly-CGA'S / Linerarity	Yes	Yes
Annual - RATA's	Yes	Yes
40 CFR 72.2 Zero Gas	Yes	Yes
Primary Calibrations	Yes	Yes

As you can see in the above chart for Part 60 facilities, EPA Protocols do not have to be used, and Certified Gases can be used instead for daily calibrations.

Red Ball Technical Gas Services follows the EPA Traceability Protocol for Assay and Certification Requirements to make these important gases wich will always have a certification included with each cylinder noting:

- NIST Traceable components and what they were traced from.
- The value on the certification sheet will be $\pm 2\%$ (or better) than the true certified value.
- Embedded QR Code that allows electronic transfer of certification data to CEMS software.



If you are performing EPA test methods make sure you use the correct calibration / EPA protocol gas:

SUFFIX	GAS
18A	Sulfur Dioxide, Oxygen, Carbon Dioxide
10A	Carbon Monoxide in Nitrogen
15	Hydrogen Sulfide in Nitrogen
16A	Hydrogen Sulfide in Nitrogen
25	Methane in Air, Propane in Air, Carbon Monoxide, and Multi Component Methane, Hexane or Toluene in Air
25A	Propane in Air
25D	1,1-dichloroethylene, Propane in Nitrogen
6C	Sulfur Dioxide, Carbon Dioxide

SUFFIX	GAS
10B	Carbon Monoxide in Nitrogen
15A	Carbonyl Sulfide in Nitrogen
16B	Sulfur Dioxide in Nitrogen
25B	Propane in Air
25E	Propane in Air or Nitrogen, or NIST Traceable mix
7E	Nitric Oxide in Nitrogen
11	Hydrogen Sulfide in Nitrogen
16	Hydrogen Sulfide in Nitrogen
18	VOC's in Nitrogen NIST Traceable