

This document summarizes the minimum data and information that should be included in a certificate of analysis to ensure adherence to requirements of a protocol gas as defined by the U.S. Environmental Protection Agency (U.S. EPA). The Institute of Clean Air Companies (ICAC) is providing this information as a courtesy while also encouraging the restart of a Federal protocol gas audit program that was discontinued in the mid-1990's. Ensuring the quality of protocol gases is important in the quantification of emissions, particularly at low emissions levels achieved by today's air pollution control systems and as authenticated by monitoring and measurement systems.

Minimum Requirements for U.S. EPA Protocol Gases

The following is the minimum information to be included when reviewing the certification documentation for U.S. EPA Protocol gases.

1. Cylinder identification number (serial number).
2. Certified concentration within three digits of the standard (ppm or % -mole basis).
3. Balance gas in the standard mixture.
4. Cylinder pressure at time of certification.
5. Assay/Certification date.
6. Certification expiration date.
7. Reference standard identification (standard type [SRM, PRM, NTRM, or GMIS], cylinder number and concentration).
8. Statement that the assay/certification conforms to EPA protocol guidelines.
9. Analytical method used.
10. Laboratory identification number (laboratory name, laboratory address).
11. Chronology of previous EPA protocol gas certification for this cylinder.
12. Analytical accuracy of the mixture.
13. Statement that certification was corrected for interference's (if applicable).
14. Ensure the concentration certified by the vendor matches the cylinder label value.