

Rule 21. Ambient Air Quality Standards.

Ambient air quality standards are as given in the following table:

Ambient Air Quality Standards

Pollutant	Averaging Time	Primary Standard	Secondary Standard
Carbon Monoxide	8-hour	9 ppm (10 mg/m ³)	Same as primary
	1-hour	35 ppm (40 mg/m ³)	Same as primary
Lead	Quarterly Average	1.5 µg/m ³	Same as Primary
Nitrogen Dioxide	Annual (Arithmetic Mean)	0.05 ppm (100 µg/m ³)	Same as Primary
Particulate Matter (PM₁₀)	Annual ⁽¹⁾ (Arithmetic Mean)	50 µg/m ³	Same as Primary
	24-hour ⁽²⁾	150 µg/m ³	Same as Primary
Particulate Matter (PM_{2.5})	Annual ⁽³⁾ (Arithmetic Mean)	15.0 µg/m ³	Same as Primary
	24-hour ⁽⁴⁾	65 µg/m ³	-----
Ozone	8-hour ⁽⁵⁾	0.08 ppm	Same as Primary
	1-hour ⁽⁶⁾	0.12 ppm	Same as Primary
Sulfur Dioxide	Annual (Arithmetic Mean)	0.03 ppm (80 µg/m ³)	----- -
	24-hour	0.14 ppm (365 µg/m ³)	-----

	3-hour	-----	0.5 ppm (1,300 $\mu\text{g}/\text{m}^3$)
Gaseous Fluorides (expressed as HF) ⁽⁷⁾	30-day	-----	1.5 ppb (1.2 $\mu\text{g}/\text{m}^3$)
	7-day	-----	2.0 ppb (1.6 $\mu\text{g}/\text{m}^3$)
	24-hour	-----	3.5 ppb (2.9 $\mu\text{g}/\text{m}^3$)
	12-hour	-----	4.5 ppb (3.7 $\mu\text{g}/\text{m}^3$)

Notes: ppm – parts per million
ppb – parts per billion
mg/m³ – milligrams per cubic meter of air
 $\mu\text{g}/\text{m}^3$ - micrograms per cubic meter of air

- (1) This standard is attained when the expected annual arithmetic mean concentration, as determined in accordance with 40 CFR Part 50, Appendix K, is less than or equal to 50 $\mu\text{g}/\text{m}^3$.
- (2) This standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu\text{g}/\text{m}^3$, as determined in accordance with 40 CFR Part 50, Appendix K, is less than or equal to one.
- (3) To attain this standard, the 3-year average of the weighted annual mean PM_{2.5} concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu\text{g}/\text{m}^3$.
- (4) To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 65 $\mu\text{g}/\text{m}^3$.
- (5) To attain this standard, the 3-year average of the fourth highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.
- (6) The standard is attained when the expected number of days per calendar year, with maximum hourly average concentrations above

0.12 ppm, as determined in accordance with 40 CFR Part 50, Appendix H is less than or equal to one.

- (7) Sources that emit gaseous fluorides, including hydrogen fluoride, and that are within a source category (including sources that would otherwise be included in the source category but fall below emissions or size thresholds for the source category) for which the EPA has promulgated standards under Section 112 of the Clean Air Act are deemed to be in compliance with any requirements under these standards if they meet any and all applicable requirements of the federal standards. These standards are not applicable to sources subject to 40 CFR Part 63, Subpart LL.

THIS IS THE FEDERALLY APPROVED REGULATION AS OF AUGUST 12, 1997

	DATE SUBMITTED to EPA	DATE APPROVED by EPA	FEDERAL REGISTER
Original Reg	JUL 20, 1989	MAY 8, 1990	55 FR 19066
1 st Revision	DEC 11, 1995	AUG 12, 1997	62 FR 43109
2 nd Revision	JUN 26, 2008	OCT 04, 2018	83 FR 50022