

**Sec. 22a-174-24. Connecticut primary and secondary ambient air quality standards**

(a) **Reserved.**

(b) The concentration of pollutants in the ambient air, as measured by a reference or equivalent method designated in 40 CFR 50 or 40 CFR 53, shall conform with levels specified in this section as the applicable air quality standards for these air pollutants throughout Connecticut. No person shall operate any stationary source, which has a significant impact on air quality as described in section 22a-174-3a(i)(1) of the Regulations of Connecticut State Agencies for the pollutants listed in Table 3a(i)-1 of section 22a-174-3a of the Regulations of Connecticut State Agencies, in such a manner as to cause or contribute to a violation of an ambient air quality standard.

(c) **Reserved.**

(d) **Connecticut primary and secondary ambient air quality standards for sulfur oxides (sulfur dioxide).**

(1) The level of the Connecticut primary 1-hour ambient air quality standard for sulfur oxides, measured as sulfur dioxide, is 75 parts per billion, as set out in 40 CFR 50.17.

(2) The level of the Connecticut secondary annual ambient air quality standard for sulfur oxides, measured as sulfur dioxide, is 10 parts per billion, as set out in 40 CFR 50.21.

(3) The level of the Connecticut primary 24-hour ambient air quality standard for sulfur oxides, measured as sulfur dioxide, is 0.14 parts per million, as set out in 40 CFR 50.4.

(4) The level of the Connecticut primary annual ambient air quality standard for sulfur oxides, measured as sulfur dioxide, is 0.030 parts per million, as set out in 40 CFR 50.4.

(5) The level of the Connecticut secondary 3-hour ambient air quality standard for sulfur oxides, measured as sulfur dioxide, is 0.5 parts per million, as set out in 40 CFR 50.5.

(e) **Connecticut primary and secondary ambient air quality standards for PM<sub>10</sub>**

The level of the Connecticut primary and secondary 24-hour ambient air quality standards for particulate matter, measured as PM<sub>10</sub>, is 150 micrograms per cubic meter, as set out in 40 CFR 50.6.

(f) **Connecticut primary and secondary ambient air quality standards for PM<sub>2.5</sub>** (fine particulate matter).

(1) The level of the Connecticut primary annual ambient air quality standard for fine particulate matter, measured as PM<sub>2.5</sub>, is 9.0 micrograms per cubic meter, as set out in 40 CFR 50.20.

(2) The level of the Connecticut primary annual ambient air quality standard for fine particulate matter, measured as PM<sub>2.5</sub>, is 12.0 micrograms per cubic meter, as set out in 40 CFR 50.18.

(3) The level of the Connecticut secondary annual ambient air quality standard for fine particulate matter, measured as PM<sub>2.5</sub>, is 15.0 micrograms per cubic meter, as set out in 40 CFR 50.13.

(4) The level of the Connecticut primary and secondary 24-hour ambient air quality standards for fine particulate matter, measured as PM<sub>2.5</sub>, is 35 micrograms per cubic meter, as set out in 40 CFR 50.18 and 40 CFR 50.13, respectively.

(g) **Reserved.**

(h) **Connecticut primary ambient air quality standards for carbon monoxide.** The levels of the Connecticut primary ambient air quality standards for carbon monoxide, as set

out in 40 CFR 50.8, are as follows:

- (1) 9 parts per million for an 8-hour average concentration; and
- (2) 35 parts per million for a 1-hour average concentration.

(i) **Connecticut primary and secondary ambient air quality standards for ozone.**

(1) The level of the Connecticut 8-hour primary and secondary ambient air quality standards for ozone, measured by a reference method based on Appendix D of CFR 50.10 and designated in accordance with 40 CFR 53, is 0.08 parts per million, as set out in 40 CFR 50.10.

(2) The level of the Connecticut 8-hour primary and secondary ambient air quality standards for ozone is 0.075 parts per million, daily maximum 8-hr average, as set out in 40 CFR 50.15.

(3) The level of the Connecticut 8-hour primary and secondary ambient air quality standards for ozone is 0.070 parts per million, daily maximum 8-hr average, as set out in 40 CFR 50.19.

(j) **Reserved.**

(k) **Connecticut primary and secondary ambient air quality standards for oxides of nitrogen (nitrogen dioxide).**

(1) The level of the Connecticut primary and secondary annual ambient air quality standard for oxides of nitrogen, measured as nitrogen dioxide, is 53 parts per billion, as set out in 40 CFR 50.11.

(2) The level of the Connecticut primary 1-hour ambient air quality standard for oxides of nitrogen, measured as nitrogen dioxide, is 100 parts per billion, as set out in 40 CFR 50.11.

(l) **Connecticut primary and secondary ambient air quality standards for lead.** The Connecticut primary and secondary ambient air quality standards for lead and its compounds are 0.15 micrograms per cubic meter, as set out in 40 CFR 50.16.

(m) **Connecticut primary ambient air quality standard for dioxin.** The Connecticut primary ambient air quality standard for dioxin is 1.0 picograms per cubic meter annual average. For the purposes of determining compliance with this standard the commissioner may use a concentration of 7.0 picograms per cubic meter 8- hour average.

(Effective July 7, 1993; Amended April 4, 2006; Amended April 15, 2014; Amended April 2, 2025; Amended April 9, 2026)