

**§ 86.210-94**

**40 CFR Ch. I (7-1-10 Edition)**

(ii) At 375 °F±10 °F (191 °C ±6 °C) immediately before the HFID. This will be determined by a temperature sensor located at the exit of the heated sample line. The sensor shall have an accuracy and precision of ±2 °F (1.1 °C).

(6) It is intended that the dilute exhaust gas flowing in the THC sample system be between 365 °F and 385 °F (185 °C and 197 °C).

(7) The requirements for the continuous HC measurement system are as follows:

(i) The system must use an “overflow” zero and span system. In this type of system, excess zero or span gas spills out of the probe when zero and span checks of the analyzer are made. The “overflow” system may also be used to calibrate the HC analyzer per §86.1321(b), although this is not required.

(ii) No other analyzers may draw a sample from the continuous HC sample probe, line or system, unless a common sample pump is used for all analyzers and the sample line system design reflects good engineering practice.

(iii) The overflow gas flow rates into the sample line shall be at least 105% of the sample system flow rate.

(iv) The overflow gases shall enter the heated sample line as close as practicable to the outside surface of the CVS duct or dilution tunnel.

[71 FR 77922, Dec. 27, 2006, as amended at 74 FR 61548, Nov. 25, 2009]

**§ 86.210-94 [Reserved]**

**§ 86.211-94 Exhaust gas analytical system.**

The provisions of §86.111-94 apply to this subpart, except that the NO<sub>x</sub> ana-

lyzer is optional. The exhaust gas analytical system must contain components necessary to determine hydrocarbons, carbon monoxide, carbon dioxide, methane, and formaldehyde. The exhaust gas analytical system is not required to contain components necessary for determining oxides of nitrogen.

[71 FR 77923, Dec. 27, 2006]

**§ 86.212-94 [Reserved]**

**§ 86.213-04 Fuel specifications.**

Gasoline having the following specifications will be used by the Administrator except that the Administrator will not use gasoline having a sulfur specification higher than 0.0045 weight percent. Gasoline having the specifications set forth in the table in this section, or substantially equivalent specifications approved by the Administrator, may be used by the manufacturer except that the octane specification does not apply. In lieu of using gasoline having these specifications, the manufacturer may, for certification testing, use gasoline having the specifications specified in §86.113-04 provided the cold CO emissions are not decreased. Documentation showing that cold CO emissions are not decreased must be maintained by the manufacturer and must be made available to the Administrator upon request. The table listing the cold CO fuel specifications described in the text in this section follows:

TABLE—COLD CO FUEL SPECIFICATIONS

| Item                              | ASTM test | Cold CO low octane value or range | Cold CO high octane <sup>1</sup> value or range |
|-----------------------------------|-----------|-----------------------------------|---|
| (RON+MON)/2, min .....            | D 2699    | 87.8±.3                           | 92.3±0.5  |
| Sensitivity, min .....            | D 2699    | 7.5                               | 7.5   |
| Distillation range:               |           |                                   |   |
| IBP, deg.F .....                  | D 86      | 76-96                             | 76-96   |
| 10% point, deg.F. ....            | D 86      | 98-118                            | 105-125   |
| 50% point, deg.F. ....            | D 86      | 179-214                           | 195-225   |
| 90% point, deg.F. ....            | D 86      | 316-346                           | 316-346   |
| EP, max, deg.F .....              | D 86      | 413                               | 413   |
| Sulfur, wt. % .....               | D 3120    | 0.0015-0.008                      | 0.0015-0.008                                    |
| Phosphorous, g/U.S gal, max ..... | D 3231    | 0.005                             | 0.005   |
| Lead, g/gal, max .....            |           | 0.01                              | 0.01  |
| RVP, psi .....                    | D 4953    | 11.5±.3                           | 11.5±.3   |
| Hydrocarbon composition .....     | D 1319    |                                   |   |
| Olefins, vol. pct .....           |           | 12.5±5.0                          | 10.0±5.0  |