

TABLE—COLD CO FUEL SPECIFICATIONS—Continued

Item	ASTM test	Cold CO low octane value or range	Cold CO high octane <sup>1</sup> value or range
Aromatics, vol. pct .....		26.4±4.0	32.0±4.0
Saturates .....		Remainder	Remainder.

<sup>1</sup> Gasoline having these specifications may be used for vehicles which are designed for the use of high-octane premium fuel.

[65 FR 6850, Feb. 10, 2000]

**§ 86.213-11 Fuel specifications.**

(a) *Gasoline-fueled light-duty vehicles and light-duty trucks.* 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			
Olefins, vol. pct .....		12.5±5.0 .....	10.0±5.0.
Aromatics, vol. pct .....		26.4±4.0 .....	32.0±4.0.
Saturates .....		Remainder .....	Remainder.

<sup>1</sup> Gasoline having these specifications may be used for vehicles which are designed for the use of high-octane premium fuel.

(b) *Petroleum-fueled diesel-cycle light-duty vehicles and light-duty trucks.* Diesel test fuel used for cold temperature FTP testing under part 600 of this chapter must be a winter-grade diesel fuel as specified in ASTM D975-04c "Standard Specification for Diesel Fuel Oils." (incorporated by reference, see § 86.1) Such test fuel must also comply with the requirements of part 80 of this chapter. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51.

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**§ 86.213–94**

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*code\_of\_federal\_regulations/ibr\_locations.html*. The Administrator may approve the use of a different diesel test fuel, provided that the level of kerosene added shall not exceed 20 percent.

[71 FR 77923, Dec. 27, 2006]

**§ 86.213–94 Fuel specifications.**

Gasoline having the following specifications will be used by the Administrator. Gasoline having the specifications set forth in the table in this section, or substantially equivalent speci-

fications 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 § 86.113–90 provided the cold CO emissions are not decreased. Documentation showing that cold CO emissions are not decreased shall be maintained by the manufacturer and shall be made available to the Administrator upon request.

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 .....	D2699	87.8±.3	92.3±0.5
Sensitivity, min .....	D2699	7.5	7.5
Distillation range:			
IBP, °F .....	D86	76–96	76–96
10% point, °F .....	D86	98–118	105–125
50% point, °F .....	D86	179–214	195–225
90% point, °F .....	D86	316–346	316–346
EP, max, °F .....	D86	413	413
Sulfur, wt. % .....	D3120	0.035±0.015	0.020±0.015
Phosphorous, g/U.S gal, max .....	D3231	0.005	0.005
Lead, g/gal, max .....		0.01	0.01
RVP, psi .....	D4953	11.5±.3	11.5±.3
Hydrocarbon composition .....			
Olefins, vol. pct .....	D1319	12.5±5.0	10.0±5.0
Aromatics, vol. pct .....		26.4±4.0	32.0±4.0
Saturates .....		Remainder	Remainder

<sup>1</sup> Gasoline having these specifications may be used for vehicles which are designed for the use of high-octane premium fuel.

**§ 86.214–94 Analytical gases.**

The provisions of § 86.114–94 apply to this subpart.

**§ 86.215–94 EPA urban dynamometer driving schedule.**

The provisions of § 86.115–78 apply to this subpart.

**§ 86.216–94 Calibrations, frequency and overview.**

The provisions of § 86.116–94 apply to this subpart.

**§ 86.217–94 [Reserved]**

**§ 86.218–94 Dynamometer calibration.**

The provisions of § 86.118–78 apply to this subpart.

**§ 86.219–94 CVS calibration.**

The provisions of § 86.119–90 apply to this subpart.

**§ 86.220–94 [Reserved]**

**§ 86.221–94 Hydrocarbon analyzer calibration.**

The provisions of § 86.121–90 apply to this subpart.

**§ 86.222–94 Carbon monoxide analyzer calibration.**

The provisions of § 86.122–78 apply to this subpart.

**§ 86.223–94 Oxides of nitrogen analyzer calibration.**

The provisions of § 86.123–78 apply to this subpart if NO<sub>x</sub> measurements are optionally made.

**§ 86.224–94 Carbon dioxide analyzer calibration.**

The provisions of § 86.124–78 apply to this subpart.