

**§ 86.213**

**40 CFR Ch. I (7-1-14 Edition)**

years as an alternative procedure under 40 CFR 1066.10(c).

(d) Section 86.213 describes special provisions related to test fuel specifications.

**§ 86.213 Fuel specifications.**

(a) *Gasoline.* Use a gasoline test fuel with ethanol (low-level blend only) or without ethanol as follows:

(1) You must certify using service accumulation fuel and E10 test fuel as specified in § 86.113 for any vehicles required to use a low-level ethanol-gasoline

blend test fuel for measuring exhaust emissions. You may use this test fuel any time earlier than we specify.

(2) You may use the test fuel specified in this paragraph (a)(2) for vehicles that are not yet subject to exhaust testing with an ethanol-blend test fuel under § 86.113. Manufacturers may certify based on this fuel using carryover data until testing with the ethanol-blend test fuel is required. The following specifications apply for gasoline test fuel without ethanol:

TABLE 1 OF § 86.213—COLD TEMPERATURE TEST FUEL SPECIFICATIONS FOR GASOLINE WITHOUT ETHANOL

Item	Regular	Premium	Reference procedure <sup>1</sup>
(RON+MON)/2 <sup>2</sup> .....	87.8±0.3 .....	92.3±0.5 .....	ASTM D2699
Sensitivity <sup>3</sup> .....	7.5 .....	7.5 .....	ASTM D2700
Distillation Range (°F):			
Evaporated initial boiling point .....	76–96 .....	76–96 .....	ASTM D86
10% evaporated .....	98–118 .....	105–125 .....	
50% evaporated .....	179–214 .....	195–225 .....	
90% evaporated .....	316–346 .....	316–346 .....	
Evaporated final boiling point .....	413 Maximum .....	413 Maximum .....	
Hydrocarbon composition (vol %):			
Olefins .....	12.5±0.5 .....	10.5±0.5 .....	ASTM D1319
Aromatics .....	26.4±4.0 .....	32.0±4.0 .....	
Saturates .....	Remainder .....	Remainder .....	
Lead, g/gallon .....	0.01, Maximum .....	0.01, Maximum .....	ASTM D3237
Phosphorous, g/gallon .....	0.005 Maximum .....	0.005 Maximum .....	ASTM D3231
Total sulfur, wt. % <sup>3</sup> .....	0.0015–0.008 .....	0.0015–0.008 .....	ASTM D2622
RVP, psi .....	11.5±0.3 .....	11.5±0.3 .....	ASTM D5191

<sup>1</sup> ASTM procedures are incorporated by reference in § 86.1.  
<sup>2</sup> Octane specifications are optional for manufacturer testing. The premium fuel specifications apply for vehicles designed to use high-octane premium fuel.  
<sup>3</sup> Sulfur concentration will not exceed 0.0045 weight percent for EPA testing.

(3) Manufacturers may use the E0 gasoline test fuel specified in § 86.113 for certification instead of the fuel specified in paragraph (a)(2) of this section, as long as the change in test fuel does not cause cold temperature NMHC, CO, or CO<sub>2</sub> emissions to decrease; manufacturers must keep records documenting these emission effects and make them available to EPA upon request.

(4) We may approve alternate fuel specifications that are substantially equivalent to those in paragraph (a)(2) of this section for a manufacturer's testing.

(b) *Diesel fuel.* Diesel fuel for testing under this subpart must meet the specifications for low-temperature test fuel in 40 CFR 1065.703.

**Subpart E—Emission Regulations for 1978 and Later New Motorcycles, General Provisions**

SOURCE: 42 FR 1126, Jan. 5, 1977, unless otherwise noted.

**§ 86.401–2006 General applicability.**

This subpart applies to 1978 and later model year, new, gasoline-fueled motorcycles built after December 31, 1977, and to 1990 and later model year, new methanol-fueled motorcycles built after December 31, 1989 and to 1997 and later model year, new natural gas-fueled and liquefied petroleum gas-fueled motorcycles built after December 31, 1996 and to 2006 and later model year new motorcycles, regardless of fuel.

[69 FR 2435, Jan. 15, 2004]

**Subpart D [Reserved]**