

214A.2 Tests and standards.

1. The department shall adopt rules pursuant to chapter 17A for carrying out this chapter. The rules may include, but are not limited to, specifications relating to motor fuel, including but not limited to renewable fuel such as ethanol blended gasoline, biodiesel, biodiesel blended fuel, and motor fuel components such as an oxygenate. In the interest of uniformity, the department shall adopt by reference other specifications relating to tests and standards for motor fuel including renewable fuel and motor fuel components, established by the United States environmental protection agency and A.S.T.M. international. In adopting standards for a renewable fuel, the department shall consult with the committee.

2. Octane number shall conform to the average of values obtained from the A.S.T.M. international D2699 research method and the A.S.T.M. international D2700 motor method.

Octane number for regular grade leaded gasoline shall follow the specifications of A.S.T.M. international but shall not be less than eighty-eight.

Octane number for premium grade leaded gasoline shall follow the specifications of A.S.T.M. international but shall not be less than ninety-three.

Octane number for regular grade unleaded gasoline shall follow the specifications of A.S.T.M. international but shall not be less than eighty-seven.

Octane number for premium grade unleaded gasoline shall follow the specifications of A.S.T.M. international but shall not be less than ninety.

3. *a.* For motor fuel advertised for sale or sold as gasoline by a dealer, the motor fuel must meet requirements for that type of motor fuel and its additives established by the United States environmental protection agency including as provided under 42 U.S.C. § 7545.

b. If the motor fuel is advertised for sale or sold as ethanol blended gasoline, the motor fuel must comply with departmental standards which shall comply with specifications for ethanol blended gasoline adopted by A.S.T.M. international. For ethanol blended gasoline all of the following shall apply:

(1) Ethanol must be an agriculturally derived ethyl alcohol that meets A.S.T.M. international specification D4806 for denatured fuel ethanol for blending with gasoline for use as automotive spark-ignition engine fuel, or a successor A.S.T.M. international specification, as established by rules adopted by the department.

(2) For ethanol blended gasoline other than E-85 gasoline, at least ten percent of the gasoline by volume must be ethanol.

(3) E-85 gasoline must be an agriculturally derived ethyl alcohol that meets A.S.T.M. international specification D5798, described as a fuel blend for use in ground vehicles with automotive spark-ignition engines, or a successor A.S.T.M. international specification, as established by rules adopted by the department.

4. *a.* For motor fuel advertised for sale or sold as diesel fuel by a dealer, the motor fuel must meet requirements for that type of motor fuel and its additives established by the United States environmental protection agency including as provided under 42 U.S.C. § 7545.

b. If the motor fuel is advertised for sale or sold as biodiesel or biodiesel blended fuel, the motor fuel must comply with departmental standards which shall comply with specifications adopted by A.S.T.M. international for biodiesel or biodiesel blended fuel, to every extent applicable as determined by rules adopted by the department.

(1) Biodiesel must conform to A.S.T.M. international specification D6751 or a successor A.S.T.M. international specification as established by rules adopted by the department. The specification shall apply to biodiesel before it leaves its place of manufacture.

(2) At least one percent of biodiesel blended fuel by volume must be biodiesel.

(3) The biodiesel may be blended with diesel fuel whose sulfur, aromatic, lubricity, and cetane levels do not comply with A.S.T.M. international specification D975 grades 1-D or 2-D, low sulfur 1-D or 2-D, or ultra-low sulfur grades 1-D or 2-D, provided that the finished biodiesel blended fuel meets A.S.T.M. international specification D975 or a successor A.S.T.M. international specification as established by rules adopted by the department.

5. Motor fuel shall not contain more than trace amounts of MTBE, as provided in section 214A.18.

[C31, 35, § 5093-d2; C39, § **5095.02**; C46, 50, 54, 58, 62, 66, 71, § 323.2; C73, 75, 77, 79, 81, § 214A.2; 82 Acts, ch 1131, § 1, ch 1170, § 1]

84 Acts, ch 1083, § 1; 85 Acts, ch 76, § 25; 85 Acts, ch 195, § 23; 89 Acts, ch 75, § 2; 90 Acts, ch 1252, § 14; 91 Acts, ch 87, §1; 2000 Acts, ch 1224, §28; 2003 Acts, ch 167, §1, 4; 2004 Acts, ch 1086, §106; 2006 Acts, ch 1142, §68, 83; 2006 Acts, ch 1175, §8, 23