

214A.2 Tests and standards.

1. The secretary 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 or oxygenate octane enhancers. In the interest of uniformity, the secretary shall adopt by reference or otherwise specifications relating to tests and standards for motor fuel or oxygenate octane enhancers, established by A.S.T.M. (American society for testing and materials) international, unless the secretary determines those specifications are inconsistent with this chapter or are not appropriate to the conditions which exist in this state.

2. Octane number shall conform to the average of values obtained from the A.S.T.M. international D-2699 research method and the A.S.T.M. international D-2700 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.* Gasoline with a mixture of ten percent or more ethanol, but not more than thirteen percent, shall be known as conventional blend ethanol.

b. Gasoline with a mixture of more than thirteen percent ethanol, but not more than twenty-five percent, shall be known as high blend ethanol. For purposes of chapters 323A, 422, and 452A, high blend ethanol shall be treated as conventional blend ethanol.

4. Motor vehicle 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

2003 strike of subsection 3, paragraph c, applies retroactively to January 1, 2002; 2003 Acts, ch 167, §4