



Designation: D 2699 – 01a

An American National Standard



Designation: 237/87

## Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel<sup>1</sup>

This standard is issued under the fixed designation D 2699; the number immediately following the designation indicates the year of original adoption or, in the case of revisions, the year of last revision. A number in parentheses indicates the year of last approval. A superscript symbol (N) indicates an editorial change since the last revision or approval.

### 1. Scope

1.1 This laboratory test method covers the quantitative determination of the knock rating of liquid spark-ignition engine fuel in terms of Research O.N., except that this test method may not be applicable to fuel and fuel components that are primarily oxygenates.<sup>2</sup> The sample fuel is tested using a standardized single cylinder, four-stroke cycle, variable compression ratio, carbureted, CFR engine run in accordance with a defined set of operating conditions. The O.N. scale is defined by the volumetric composition of PRF blends. The sample fuel knock intensity is compared to that of one or more PRF blends. The O.N. of the PRF blend that matches the K.I. of the sample fuel establishes the Research O.N.

1.2 The O.N. scale covers the range from 0 to 120 octane number but this test method has a working range from 40 to 120 Research O.N. Typical commercial fuels produced for spark-ignition engines rate in the 88 to 100 Research O.N. range. Testing of gasoline blend stocks or other process stream materials can produce ratings at various levels throughout the Research O.N. range.

1.3 The values of operating conditions are stated in SI units and are considered standard. The values in parentheses are the historical inch-pound units. The standardized CFR engine measurements continue to be in inch-pound units only because of the extensive and expensive tooling that has been created for this equipment.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. For specific hazard statements, see Sections 8, 13.4.1, 14.5.1, 15.6.1, Annex A1, A2.3.9, A2.4.8, A3.2.7.2(7), A4.2.3.1, A4.2.3.3(6) and 19.

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02-01 on Combustion Characteristics.

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<sup>2</sup> Motor O.N., determined using Test Method D 2700, is a comparative method to provide a similar but typically lower octane rating under more severe operating conditions.

A4.3.5, X2.3.7, X3.2.3.1, X3.3.4.1, X3.3.9.3, X3.3.11.4, and X3.5.1.8.

### 2. Referenced Documents

#### 2.1 ASTM Standards:

- D 1193 Specification for Reagent Water<sup>3</sup>
- D 1744 Test Method for Water in Liquid Petroleum Products by Karl Fischer Reagent<sup>4</sup>
- D 2268 Test Method for Analysis of High-Purity *n*-Heptane and Isooctane by Capillary Gas Chromatography<sup>5</sup>
- D 2360 Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography<sup>6</sup>
- D 2700 Test Method for Motor Octane Number of Spark-Ignition Engine Fuel<sup>7</sup>
- D 2885 Test Method for Research and Motor Method Octane Ratings Using On-Line Analyzers<sup>8</sup>
- D 3116 Test Method for Trace Amounts of Lead in Gasoline<sup>9</sup>
- D 3257 Test Method for Lead in Gasoline by Atomic Absorption Spectrometry<sup>10</sup>
- D 3703 Test Method for Peroxide Number of Aviation Turbine Fuels<sup>11</sup>
- D 4057 Practice for Manual Sampling of Petroleum and Petroleum Products<sup>12</sup>
- D 4173 Terminology Relating to Petroleum, Petroleum Products, and Lubricants<sup>13</sup>
- D 4177 Practice for Automatic Sampling of Petroleum and Petroleum Products<sup>14</sup>
- D 4814 Specification for Automotive Spark-Ignition Engine Fuel<sup>15</sup>
- E 1 Specification for ASTM Thermometers<sup>16</sup>
- E 456 Terminology Relating to Quality and Statistics<sup>17</sup>

<sup>3</sup> Annual Book of ASTM Standards, Vol. 11.00.

<sup>4</sup> Annual Book of ASTM Standards, Vol. 05.01.

<sup>5</sup> Annual Book of ASTM Standards, Vol. 05.04.

<sup>6</sup> Annual Book of ASTM Standards, Vol. 05.05.

<sup>7</sup> Deleted, see 1999 Annual Book of ASTM Standards, Vol. 05.02.

<sup>8</sup> Annual Book of ASTM Standards, Vol. 05.02.

<sup>9</sup> Annual Book of ASTM Standards, Vol. 14.00.

<sup>10</sup> Annual Book of ASTM Standards, Vol. 14.00.

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web we have been given commandments to help us prepare in every way to live in the presence of our heavenly father he has given us a way to thank him for our blessings willingly paying tithes and offerings is one way we thank him as we pay these offerings we show that we love him and will obey his counsel

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web jun 21 2019 father god you are the giver of all good things and your word makes clear that every good and perfect gift

comes from you we ask that you accept these gifts and use them to your glory may these

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web sep 2 2022 read on to explore encouraging words for offering and tithes 1 beyond mere obligations tithing is one of the ways to thank god for his blessings over your life and also unlock the doors to more blessings 2 your tithes and offering is your means of supporting the church and investing in your immediate community

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web by faith by believing that he can and will do what he says in his word if we choose to obey and to trust in his word and accept his challenge he will prove his word faithfully every time confession father today i bring my tithe and my gift into your storehouse

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web may 15 2022 the bible tells us that we should give tithes and offerings because they are a way of honoring god when we give back to god we are acknowledging that everything we have comes from him giving also shows our trust in god we trust that he will provide for us even when we give generously

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web mar 11 2019 glossary of grammatical and rhetorical terms abolitionist and orator henry h garnet 1815 1882 james u stead wikimedia commons by richard nordquist updated on march 11 2019 an exhortation is a speech that attempts to encourage motivate or incite an audience through strong emotional appeals here are some

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web jul 31 2023 sermons on tithes and offerings 1 even when we can t give much god can do much with it in the midst of a very severe trial their overflowing joy and their extreme poverty welled up in rich generosity for i testify that they gave as much as they were able and even beyond their ability

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