

PROPOSED REGULATORY TEXT

The latest proposed text of the regulation is shown below with deletions to the previously posted version of September 13, 2016 indicated by a single strikethrough. The previous versions posted on June 24, 2016 and September 13, 2016 are available on the Department's website at <https://www.cdfa.ca.gov/dms/regulations.html>.

DEPARTMENT OF FOOD AND AGRICULTURE DIVISION OF MEASUREMENT STANDARDS

Title 4, Division 9, Chapter 6. Automotive Product Specifications

Article 10. Specifications for Natural Gas Used as a Motor Vehicle Fuel.

4192. Definitions Used in This Article.

(a) Natural gas means a mixture of hydrocarbon compounds consisting of primarily methane in the form of a compressed gas or a cryogenic liquid intended for use as a motor vehicle fuel.

(b) Wobbe Index means the ratio of the higher heating value of a gaseous fuel at specified reference conditions and the square root of its relative density at the same reference conditions.

4193. Specifications for Natural Gas Used as a Motor Vehicle Fuel.

Effective January 1, 2018, natural gas fuel sold for use in internal combustion engines shall meet the requirements of the latest version of SAE International J1616 "Standard for Compressed Natural Gas Vehicle Fuel."

The following table summarizes the specifications included in SAE J1616 and test methods for their determination. The latest version of SAE J1616 provides the units with minimum and/or maximum values for each specification.

Specification	Test Method
Wobbe Index	ASTM 3588 or ISO 6976
Water Dew Point	ASTM D1142, D5454 or equivalent
Methane	ASTM D1945 or D7833
Ethane	ASTM D1945 or D7833
C3 and higher hydrocarbons	ASTM D1945 or D7833
C6 and higher hydrocarbons	ASTM D1945 or D7833
Hydrogen	ASTM D2650, D1945 or D7833

Carbon monoxide	ASTM D2650, D1945 or D7833
Oxygen	ASTM D1945 or D7833
Sum of CO ₂ and N ₂	ASTM D1945 or D7833
Total Sulfur (includes odorant)	ASTM D4084, D4810, D4468, D5504, D6228, D6968, or D7551
Hydrogen Sulfide	ASTM D4084, D4810, D4468, D5504, D6228, or D7551
Particulate size	None specified
Silicon	None specified

Other applications: Natural gas not sold as a motor vehicle fuel is exempt from these fuel quality specifications.

NOTE: Authority cited: Sections 12027 and 13446, Business and Professions Code. Reference: Sections 13400 (b) (9), 13400 (c), 13400 (g), 13400 (p), 13400 (t), 13413 (a), 13413 (b)(1), 13440, 13591, 13592 and 13595 (a), Business and Professions Code.

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