

§ 1065.715

§ 1065.715 Natural gas.

(a) Natural gas for testing must meet the specifications in the following table:

TABLE 1 OF § 1065.715—TEST FUEL SPECIFICATIONS FOR NATURAL GAS

Item	Value ¹
1. Methane, CH ₄	Minimum, 0.87 mol/mol.
2. Ethane, C ₂ H ₆	Maximum, 0.055 mol/mol.
3. Propane, C ₃ H ₈	Maximum, 0.012 mol/mol.
4. Butane, C ₄ H ₁₀	Maximum, 0.0035 mol/mol.
5. Pentane, C ₅ H ₁₂	Maximum, 0.0013 mol/mol.
6. C _n and higher	Maximum, 0.001 mol/mol.
7. Oxygen	Maximum, 0.001 mol/mol.
8. Inert gases (sum of CO ₂ and N ₂)	Maximum, 0.051 mol/mol.

¹ All parameters are based on the reference procedures in ASTM D 1945-03 (incorporated by reference in § 1065.1010). See § 1065.701(d) for other allowed procedures.

(b) At ambient conditions, natural gas must have a distinctive odor detectable down to a concentration in air not more than one-fifth the lower flammable limit.

EFFECTIVE DATE NOTE: At 73 FR 37342, June 30, 2008, §1065.715 was revised, effective July

7, 2008. For the convenience of the user, the revised text is set forth as follows:

§ 1065.715 Natural gas.

(a) Except as specified in paragraph (b) of this section, natural gas for testing must meet the specifications in the following table:

TABLE 1 OF § 1065.715.—TEST FUEL SPECIFICATIONS FOR NATURAL GAS

Item	Value ¹
Methane, CH ₄	Minimum, 0.87 mol/mol.
Ethane, C ₂ H ₆	Maximum, 0.055 mol/mol.
Propane, C ₃ H ₈	Maximum, 0.012 mol/mol.
Butane, C ₄ H ₁₀	Maximum, 0.0035 mol/mol.
Pentane, C ₅ H ₁₂	Maximum, 0.0013 mol/mol.
C _n and higher	Maximum, 0.001 mol/mol.
Oxygen	Maximum, 0.001 mol/mol.
Inert gases (sum of CO ₂ and N ₂)	Maximum, 0.051 mol/mol.

¹ All parameters are based on the reference procedures in ASTM D1945-03 (incorporated by reference in § 1065.1010). See § 1065.701(d) for other allowed procedures.

(b) In certain cases you may use test fuel not meeting the specifications in paragraph (a) of this section, as follows:

- (1) You may use fuel that your in-use engines normally use, such as pipeline natural gas.
- (2) You may use fuel meeting alternate specifications if the standard-setting part allows it.
- (3) You may ask for approval to use fuel that does not meet the specifications in paragraph (a) of this section, but only if using the fuel would not adversely affect your ability to demonstrate compliance with the applicable standards.

(c) When we conduct testing using natural gas, we will use fuel that meets the specifications in paragraph (a) of this section.

(d) At ambient conditions, natural gas must have a distinctive odor detectable down to a concentration in air not more than one-fifth the lower flammable limit.

§ 1065.720 Liquefied petroleum gas.

(a) Liquefied petroleum gas for testing must meet the specifications in the following table:

TABLE 1 OF § 1065.720—TEST FUEL SPECIFICATIONS FOR LIQUEFIED PETROLEUM GAS

Item	Value	Reference Procedure ¹
1. Propane, C ₃ H ₈	Minimum, 0.85 m ³ /m ³	ASTM D 2163-91
2. Vapor pressure at 38 °C	Maximum, 1400 kPa	ASTM D 1267-02 or 2598-02 ²