



Designation: D1835 – 20

Standard Specification for Liquefied Petroleum (LP) Gases¹

This standard is issued under the fixed designation D1835; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This specification covers those products commonly referred to as liquefied petroleum gases, consisting of propane, propene (propylene), butane, and mixtures of these materials. Four basic types of liquefied petroleum gases are provided to cover the common use applications.

1.2 This specification is applicable to products intended for use as domestic, commercial and industrial heating, and engine fuels.

1.3 The values stated in SI units are to be regarded as standard. The values given in parentheses after SI units are provided for information only and are not considered standard.

1.3.1 The non-SI unit ‘psig’ is the standard unit for footnote C of [Table 1](#) because that unit of measurement is widely used in North American industry.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

[D1265 Practice for Sampling Liquefied Petroleum \(LP\) Gases, Manual Method](#)

[D1267 Test Method for Gauge Vapor Pressure of Liquefied Petroleum \(LP\) Gases \(LP-Gas Method\)](#)

[D1657 Test Method for Density or Relative Density of Light Hydrocarbons by Pressure Hydrometer](#)

[D1837 Test Method for Volatility of Liquefied Petroleum \(LP\) Gases \(Withdrawn 2017\)³](#)

[D1838 Test Method for Copper Strip Corrosion by Liquefied Petroleum \(LP\) Gases](#)

[D2158 Test Method for Residues in Liquefied Petroleum \(LP\) Gases](#)

[D2163 Test Method for Determination of Hydrocarbons in Liquefied Petroleum \(LP\) Gases and Propane/Propene Mixtures by Gas Chromatography](#)

[D2420 Test Method for Hydrogen Sulfide in Liquefied Petroleum \(LP\) Gases \(Lead Acetate Method\)](#)

[D2598 Practice for Calculation of Certain Physical Properties of Liquefied Petroleum \(LP\) Gases from Compositional Analysis](#)

[D2713 Test Method for Dryness of Propane \(Valve Freeze Method\)](#)

[D3700 Practice for Obtaining LPG Samples Using a Floating Piston Cylinder](#)

[D5504 Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence](#)

[D5623 Test Method for Sulfur Compounds in Light Petroleum Liquids by Gas Chromatography and Sulfur Selective Detection](#)

[D6667 Test Method for Determination of Total Volatile Sulfur in Gaseous Hydrocarbons and Liquefied Petroleum Gases by Ultraviolet Fluorescence](#)

[D6897 Test Method for Vapor Pressure of Liquefied Petroleum Gases \(LPG\) \(Expansion Method\)](#)

[D7756 Test Method for Residues in Liquefied Petroleum \(LP\) Gases by Gas Chromatography with Liquid, On-Column Injection](#)

[D7828 Test Method for Determination of Residue Composition in Liquefied Petroleum Gas \(LPG\) Using Automated Thermal Desorption/Gas Chromatography \(ATD/GC\)](#)

¹ This specification is under the jurisdiction of ASTM Committee D02 on Petroleum Products, Liquid Fuels, and Lubricants and is the direct responsibility of Subcommittee D02.H0 on Liquefied Petroleum Gas.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

*A Summary of Changes section appears at the end of this standard