

AS 4670(Int)—2005
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Interim Australian Standard™

**Commercial propane and commercial
butane for heating purposes**

This Interim Australian Standard was prepared by Committee CH-038, Liquefied Petroleum Gas—Composition. It was approved on behalf of the Council of Standards Australia on 2 February 2005.

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The following are represented on Committee CH-038:

Australian Liquefied Petroleum Gas Association
Gas Appliance Manufacturers Association of Australia
Gas Technical Regulators Committee
The Australian Gas Association

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PREFACE

This Interim Standard was prepared by Standards Australia Committee CH-038, Liquefied petroleum gas—Composition.

The following documents were used in the course of its preparation:

ISO 9162:1989	Petroleum products—Fuels (Class F)—Liquefied petroleum gases—Specifications
ALPGA	Liquefied petroleum gas for heating use specification 2000
BS 4250:1997	Specification for commercial butane and commercial propane
ASTM D1835-97	Standard specification for liquefied petroleum (LP) gases
NZS 5435:1996	Specification for liquefied petroleum gas (LPG)
Environment Australia	Fuel Standard (Autogas) Determination 2003

The objective of this Interim Standard is to provide Regulatory Authorities and users with uniform requirements for liquefied petroleum gas (LP Gas), that would be suitable for heating purposes. The scope of the Standard is restricted to the liquid phase as it is difficult to specify composition of the vapour phase.

Attention is drawn to the fact that this document is an Interim Australian Standard and should be regarded as a developmental Standard and liable to further alteration. Two items in particular will be considered by the Committee at the next revision of the Standard.

The level of propene has been chosen on the basis of the limited objective evidence available at the time of publication. The Committee plans to gather further evidence through a program of appliance testing during the life of the Interim Standard.

As some other values set for properties of commercial propane and butane are based on test methods and values set in Environment Australia's Fuel Standard (Autogas) Determination of 2003, these values and methods will be reviewed when that document is revised.

Comment is invited on this Interim Standard from persons and organizations concerned with the subject. This Interim Standard has a currency of two years from its date of publication. At the conclusion of this period it will be superseded by another Standard, confirmed as an Interim Standard in its present form for a further two-year period or withdrawn.

The term 'informative' has been used in this Interim Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Interim Australian Standard

Specification for commercial propane and commercial butane for heating purposes

1 SCOPE

This Interim Standard specifies requirements for liquefied petroleum gas (LP Gas) products in the liquid phase as supplied for general domestic and industrial fuel purposes, in bulk and into cylinders. The requirements apply at the point of custody transfer except when withdrawal or loss of product from the vapour phase will change the composition of the product remaining in the liquid phase.

This Interim Standard does not include requirements for storage or handling of LP Gas which are covered in AS/NZS 1596.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Interim Standard:

AS/NZS

1596 The storage and handling of LP Gas

ISO

3993 Liquefied petroleum gas and light hydrocarbons—Determination of density or relative density—Pressure hydrometer method

4256 Liquefied petroleum gases—Determination of gauge vapour pressure—LPG method (IP 410)

4257 Liquefied petroleum gases—Method of sampling

4259 Petroleum products—Determination and application of precision data in relation to methods of test

6251 Liquefied petroleum gases—Corrosiveness to copper—Copper strip test (IP 411)

6976 Natural gas—Calculation of calorific values, density, relative density and Wobbe index from composition

7941 Commercial propane and butane—Analysis by gas chromatography (IP 405)

8973 Liquefied petroleum gases—Calculation method for density and vapour pressure (IP 432)

15757 Liquefied petroleum gases—Determination of oily residues—High-temperature method

13758 Liquefied petroleum gases—Assessment of the dryness of propane—Valve freeze method (IP 395, ASTM D2713)

ASTM

D2784 Standard test method for sulfur in liquefied petroleum gases (oxy-hydrogen burner or lamp)

D3246 Standard test method for sulfur in petroleum gas by oxidative microcoulometry

D3700 Standard practice for obtaining LPG samples using a floating piston cylinder