

CCS X 40



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 1886.54-2015

National Food Safety Standard -- Food Additives -- Propane

食品安全国家标准 食品添加剂 丙烷

(English Translation)

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Table of Contents

- 1 Scope
- 2 Molecular formula, relative molecular mass and structural formula
 - 2.2 Formula
 - 2.3 Relative molecular mass
- 3 Technical requirements
 - 3.1 Sensory requirements
 - 3.2 Physical and Chemical Indicators

1 Scope

This standard applies to natural gas by the fractionation after oil absorption or frozen prepared food additive propane.

2 Molecular formula, relative molecular mass and structural formula

Formula 2.1

C₃H₈

2.2 Formula

CH₃-CH₂-CH₃

2.3 Relative molecular mass

44.10 (according to 2007 international relative atomic mass)

3.1 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

Table 1 Sensory requirements

Project requires test methods Color colorless State gas Colorless transparent cylinder relief outlet hose connection, open and close a short time Lower valve, observed under natural light in color and line status

3.2 Physical and Chemical Indicators

Physical and chemical indicators should be consistent with the provisions of Table 2.

Table 2. Physical and chemical indicators

Item Index Test Method Propane content /% ≥ 98.0 GB/T 22026-2008 Water/(mg/kg) ≤ 10 GB/T Karl Fischer Coulomb Law and electric 7376-2008 stipulated Solution, which Karl Fischer Coulomb law Arbitration Law TABLE 2 (cont.) Item Index Test Method High-boiling residue/(mg/kg) ≤ 5 GB/T 7373-2006 4.7 Sulfide by testing in Appendix A A.3 the residue acidity by test A.4 in Appendix A Appendix A Testing method A.1 General Provisions Unless otherwise indicated in the analysis using only recognized as analytical reagents and GB/T 6682 stipulated three water.

The test method used in the standard titration solution, impurities measured by standard solution, preparations and products, not specified in other requirements, according GB/T 601, the provisions of the preparation of GB/T 602 and GB/T 603's. The solution in a solvent which does not indicate by when formulated, refers to an aqueous solution.

A.2 Identification Test A.2.1 Determination of Infrared Spectra by infrared absorption spectrophotometry, the sample spectrum and the control spectrum (see Appendix B) Comparison of the two should be basically the same.

A.2.2 Determination of vapor pressure According to GB/T 22026-2008 Determination of the method in 4.6. 21 °C sample vapor pressure (absolute pressure) should is 820kPa ~ 875kPa.

A.3 Determination of sulfide the sample cylinder valve is opened, the formation of air appropriate to adjust the flow, do not direct the airflow to the face, the reflective part of the airflow toward the nose, sniffing its taste. No specific sample sulfide odor is by testing.

A.4 Determination of residue acidity Take the high-boiling residue sample after measurement, add water to dissolve 10mL, add 2 drops to 3 drops of methyl orange indicator solution (1g/L), no pink or red Color is produced by the test.

Appendix B

Propane infrared spectrum Propane infrared spectrum is shown in Figure B.1.

Figure B.1 propane infrared spectrum