

Sanitation Standard for Propane to be Used in Food

DOH Food No. 0970404346 Announced, 12 August 2008

Article 1

This Standard is prescribed in accordance with the provisions of Article 10 of the Act Governing Food Sanitation.

Article 2

The name of the chemical is propane, CAS Reg. No. 74-98-6, the formula of the chemical is indicated as C₃H₈, and its molecular weight is 44.10.

Article 3

Propane to be used in food shall meet the requirements according to the following standards:

| Item | Standards |
|---------------------------------|---|
| Assay | Not less than 95% (v/v) |
| Description | Colorless, odourless and flammable gas |
| Boiling temperature | -42 °C |
| Solubility | One volume of water dissolves 0.065 volumes at 17.8°C and 753 mmHg; 1 volume of anhydrous alcohol dissolves 7.9 volumes at 16.6°C and 754 mmHg; 1 volume of ether dissolves 9.26 volumes at 16.6°C and 757 mmHg; 1 volume of chloroform dissolves 12.99 volumes at 21.6°C and 757 mmHg. |
| Infrared absorption spectrum | The spectrum of a sample exhibits maxima, among others, at approximately 3.4 μm (vs), 6.8 μm (s), and 7.2 μm (m). |
| Moisture purity | Not more than 0.005 % |
| High-boiling residue | Not more than 5 mg/kg |
| Acidity of high-boiling residue | Add 10 mL of water to the sample, mix by swirling for about 30 s, add 2 drops of methyl orange TS, |

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| | insert the stopper in the tube, and shake the tube vigorously. No pink or red color appears in the aqueous layer. |
| Sulfur compounds analysis | Carefully open the container valve to produce a moderate flow of gas. Do not direct the gas stream toward the face, but deflect apportion of the stream toward the nose. The gas is free from the characteristic odor of sulfur compounds. |

Article 4

This Standard shall be implemented from the date of promulgation.