

# Sanitation Standard for Propane to be Used in Food

**(Amended Date:2013-08-20)**

1.Promulgated on August 12,1995

2.Amended on August 20, 2013

Article 1 This Standard is prescribed in accordance with the provisions of Article 17 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 C<sub>3</sub>H<sub>8</sub>, 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 3.4µm (vs), 6.8µm (s), and 7.2µm (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, 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.