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Voluntary - Public

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GAIN Report Number: JA9035

Japan

Post: Tokyo

Japan Proposes Designation of 7 New Food Additives

Report Categories:

Sanitary/Phytosanitary/Food Safety

WTO Notifications

Approved By:

Jess K. Paulson

Prepared By:

Tomohiro Kurai

Report Highlights:

On March 18, 2019, Japan notified the World Trade Organization (WTO) of a proposal to designate Isobutylamine, Isopropylamine, sec-Butylamine, Propylamine, Hexylamine, Pentylamine and 2-Methylbutylamine as food additives via G/SPS/N/JPN/623. Japan will not establish a public comment period for this proposal as it relaxes the regulation. However, interested U.S. parties are welcome to share their comments and/or concerns with USDA's enquiry point (us.spsenquirypoint@fas.usda.gov).

Keywords: JA9035, food additive, Argon, Isobutylamine, Isopropylamine, sec-Butylamine, Propylamine, Hexylamine, Pentylamine, 2-Methylbutylamine

General Information:

On March 18, 2019, Japan notified the World Trade Organization (WTO) of a proposal to designate Isobutylamine, Isopropylamine, sec-Butylamine, Propylamine, Hexylamine, Pentylamine and 2-Methylbutylamine as food additives via G/SPS/N/JPN/623. In the notification, the Ministry of Health, Labour and Welfare (MHLW), the regulatory agency responsible for food safety in Japan, designates these chemicals as food additives and specifies Annex 1 below as standards for use of these chemicals as food additives. This proposal will take an immediate effect once the official Japanese Governmental Gazette is published.

There will be no public comment period established for this proposal as it relaxes the regulation. However, interested U.S. parties are welcomed to share their comments and/or concerns with USDA's enquiry point (us.spsenquirypoint@fas.usda.gov).

(The following is taken from Japan's notification)

Annex 1 – Amendment to the Ordinance for Enforcement of the Food Sanitation Act and the Specifications and Standards for Foods, Food Additives, Etc.

The government of Japan will designate Isobutylamine, Isopropylamine, sec Butylamine, Propylamine, Hexylamine, Pentylamine, and 2-Methylbutylamine as authorized food additives and establish the standards for use and the compositional specifications.

Summary

The Food Sanitation Act (hereinafter referred to as "the Act"), in Article 10, prohibits the use and the sale of the food additives the Minister of Health, Labour and Welfare (hereinafter referred to as "the Minister") does not designate. In addition, when specifications or standards for food additives are stipulated in the Specifications and Standards for Foods, Food Additives, Etc. (Ministry of Health and Welfare Notification No. 370, 1959) pursuant to Article 11 of the Act, those additives shall not be used or sold unless they meet the standards or the specifications.

In response to a request from the Minister, the Committee on Food Additives of the Food Sanitation Council under the Pharmaceutical Affairs and Food Sanitation Council (hereinafter referred to as "the Committee") has discussed the adequacy of the designation of Isobutylamine, Isopropylamine, sec-Butylamine, Propylamine, Hexylamine, Pentylamine, and 2-Methylbutylamine as food additives. The conclusion of the Committee is outlined below.

Outline of conclusion

The Minister, pursuant to Article 10 of the Act, should designate Isobutylamine, Isopropylamine, sec-Butylamine, Propylamine, Hexylamine, Pentylamine, and 2-Methylbutylamine as food additives unlikely to harm human health and establish the standards for use and the compositional specifications pursuant to Article 11 of the Act (see Attachment for the details).

Attachment

Isobutylamine イソブチルアミン

Standard for use (draft)

Only for flavoring **Compositional**

specifications (draft)

Substance name Isobutylamine Structural formula

Molecular formula C₄H₁₁N

Molecular weight 73.14

Chemical name [CAS number] 2-Methylpropan-1-amine [78-81-9]

Content Isobutylamine contains not less than 95.0% of isobutylamine (C₄H₁₁N).

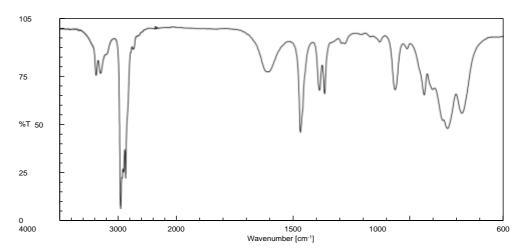
Description Isobutylamine occurs as a colorless to yellow, clear liquid having a characteristic odor.

Identification Determine the infrared absorption spectrum of Isobutylamine as directed in the Liquid Film Method under Infrared Spectrophotometry, and compare it with the Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

Refractive index n_D^{20} : 1.391–1.400

Specific gravity d_{25}^{25} : 0.724–0.737

Isobutylamine



Isopropylamine イソプロピルアミン

Standard for use (draft)

Only for flavoring Compositional

specifications (draft)

Substance name Isopropylamine Structural formula

Molecular formula C₃H₉N Molecular

weight 59.11

Chemical name [CAS number] Propan-2-amine [75-31-0]

Content Isopropylamine contains not less than 95.0% of isopropylamine (C₃H₉N).

Description Isopropylamine occurs as a colorless to yellow, clear liquid having a characteristic odor.

Identification Determine the infrared absorption spectrum of Isopropylamine as directed in the

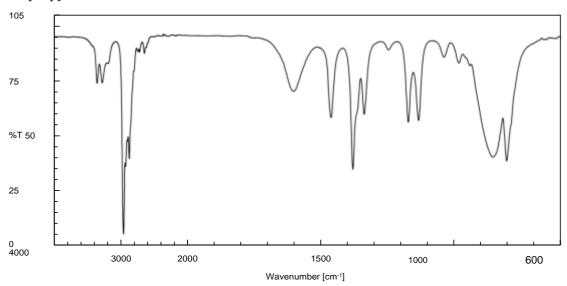
Liquid Film Method under Infrared Spectrophotometry, and compare it with the

Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

Refractive index n_D^{20} : 1.367–1.378

Specific gravity d_{25}^{25} : 0.681–0.693

Isopropylamine



sec-Butylamine

sec-ブチルアミン

Standard for use (draft)

Only for flavoring **Compositional**

specifications (draft)

Substance name *sec-*Butylamine Structural formula

$$H_3C$$
 CH_3

Molecular formula C₄H₁₁N

Molecular weight 73.14

Chemical name [CAS number] Butan-2-amine [13952-84-6]

Content sec Butylamine contains not less than 95.0% of sec butylamine (C₄H₁₁N).

Description sec Butylamine occurs as a colorless to yellow, clear liquid having a characteristic odor.

Identification Determine the infrared absorption spectrum of sec Butylamine as directed in the

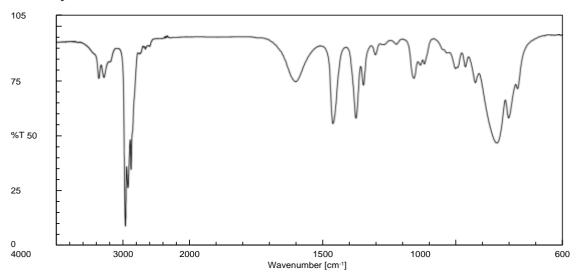
Liquid FilmMethod under Infrared Spectrophotometry, and compare it with the

Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

Refractive index n_D^{20} : 1.387–1.396

Specific gravity d_{25}^{25} : 0.715–0.724

$sec ext{-}Butylamine$



Propylamine プロピルアミン

Standard for use (draft)

Only for flavoring Compositional

specifications (draft)

Substance name Propylamine Structural formula

Molecular formula C₃H₉N Molecular

weight 59.11

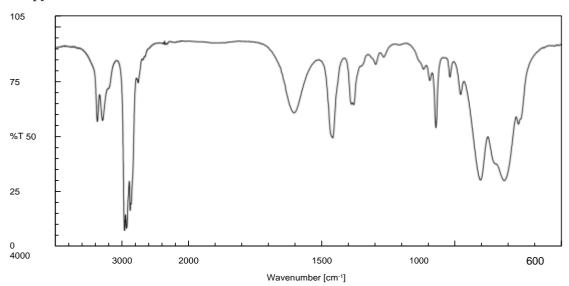
Chemical name [CAS number] Propan-1-amine [107-10-8]

Content Propylamine contains not less than 95.0% of propylamine (C₃H₉N).

Description Propylamine occurs as a colorless to yellow, clear liquid having a characteristic odor. **Identification** Determine the infrared absorption spectrum of Propylamine as directed in the Liquid Film Method under Infrared Spectrophotometry, and compare it with the Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

Refractive index n_D^{20} : 1.384–1.392 **Specific gravity** d_{25}^{25} : 0.710–0.720

Propylamine



Hexylamine ヘキシルアミン

Standard for use (draft)

Only for flavoring Compositional

specifications (draft)

Substance name Hexylamine Structural formula



Molecular formula C₆H₁₅N

Molecular weight 101.19

Chemical name [CAS number] Hexan-1-amine [111-26-2]

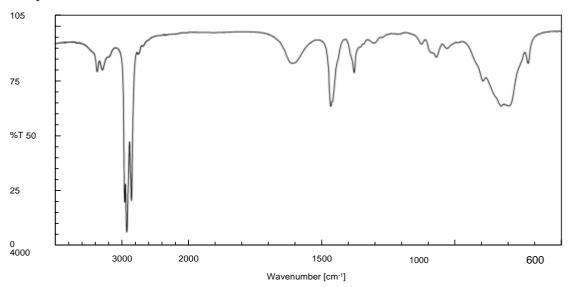
Content Hexylamine contains not less than 95.0% of hexylamine (C₆H₁₅N).

Description Hexylamine occurs as a colorless to yellow, clear liquid having a characteristic odor.

Identification Determine the infrared absorption spectrum of Hexylamine as directed in the Liquid Film Method under Infrared Spectrophotometry, and compare it with the Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

Refractive index n_D^{20} : 1.415–1.421 **Specific gravity** d_{25}^{25} : 0.761–0.767

Hexylamine



Pentylamine ペンチルアミン

Standard for use (draft)

Only for flavoring Compositional

specifications (draft)

Substance name Pentylamine Structural formula

$$H_3C$$
 NH_2

Molecular formula C₅H₁₃N

Molecular weight 87.16

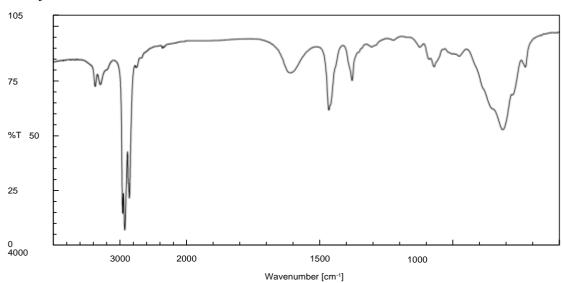
Chemical name [CAS number] Pentan-1-amine [110-58-7]

Content Pentylamine contains not less than 95.0% of pentylamine (C₅H₁₃N).

Description Pentylamine occurs as a colorless to yellow, clear liquid having a characteristic odor. **Identification** Determine the infrared absorption spectrum of Pentylamine as directed in the Liquid Film Method under Infrared Spectrophotometry, and compare it with the Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

Refractive index n_D^{20} : 1.408–1.424 **Specific gravity** d_{25}^{25} : 0.750–0.759

Pentylamine



2-Methylbutylamine 2-メチルブチルアミン

Standard for use (draft)

Only for flavoring Compositional

specifications (draft)

Substance name 2-Methylbutylamine Structural formula

$$H_3C$$
 CH_3 NH_2

Molecular formula C₅H₁₃N

Molecular weight 87.16

Chemical name [CAS number] 2-Methylbutan-1-amine [96-15-1]

Content 2-Methylbutylamine contains not less than 95.0% of 2-methylbutylamine (C₅H₁₃N).

Description 2-Methylbutylamine occurs as a colorless to yellow, clear liquid having a characteristic odor.

Identification Determine the infrared absorption spectrum of 2-Methylbutylamine as directed in the Liquid Film Method under Infrared Spectrophotometry, and compare it with the Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

 $\textbf{Refractive index} \quad n_D^{20} \hbox{:}\ 1.408 \hbox{--} 1.423$

Specific gravity d_{25}^{25} : 0.752–0.779

$2\hbox{-Methylbutylamine}$

