Attachment

Isobutylamine

イソブチルアミン

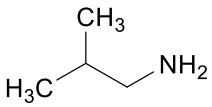
Standard for use

Only for flavoring

Compositional specifications

Substance name Isobutylamine

Structural formula



Molecular formula $C_4H_{11}N$

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 ($C_4H_{11}N$).

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.

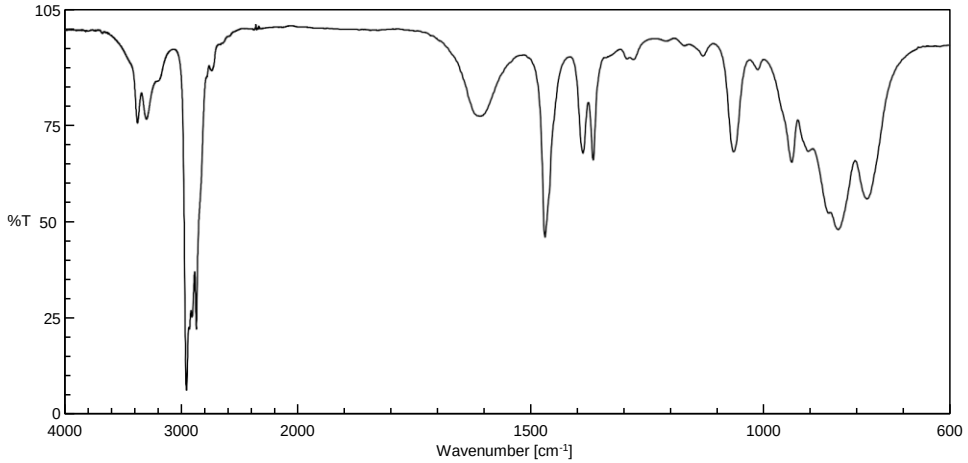
Refractive index n_D^{20}: 1.391–1.400

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

Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

Isobutylamine



Isopropylamine

イソプロピルアミン

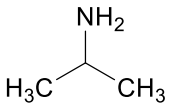
Standard for use

Only for flavoring

Compositional specifications

Substance name Isopropylamine

Structural formula



Molecular formula C_3H_9N

Molecular weight 59.11

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

Content Isopropylamine contains not less than 95.0% of isopropylamine (C_3H_9N).

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.

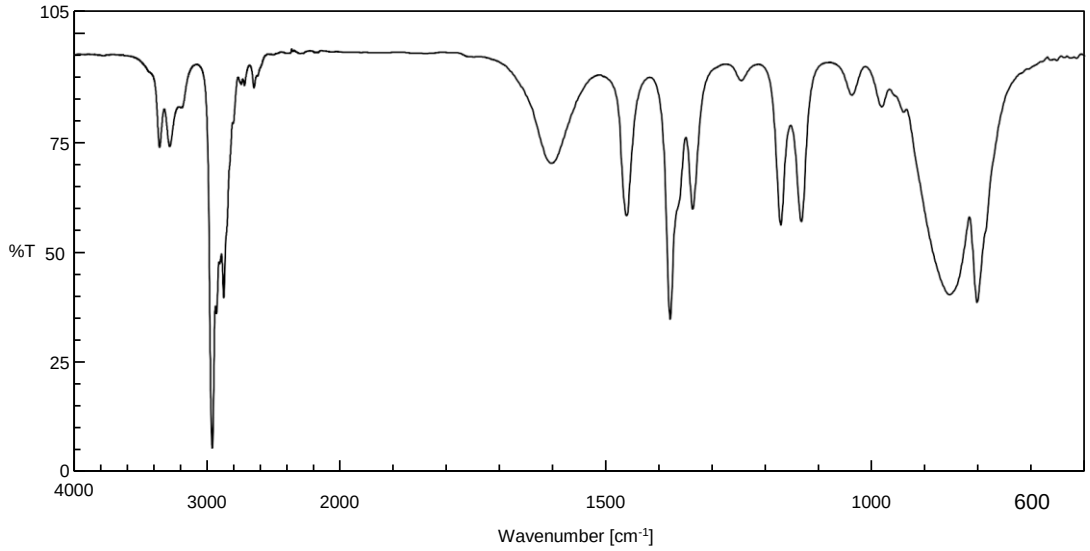
Refractive index n_D^{20}: 1.367–1.378

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

Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

Isopropylamine



sec-Butylamine

sec-ブチルアミン

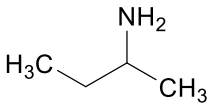
Standard for use

Only for flavoring

Compositional specifications

Substance name *sec*-Butylamine

Structural formula



Molecular formula $C_4H_{11}N$

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 ($C_4H_{11}N$).

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 Film Method under Infrared Spectrophotometry, and compare it with the Reference Spectrum. Both spectra exhibit similar intensities of absorption at the same wavenumbers.

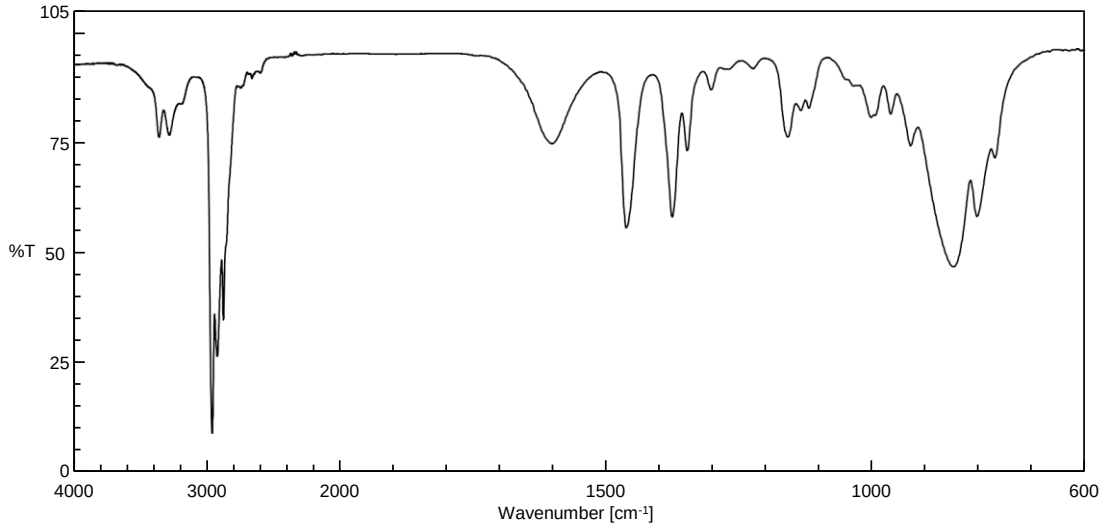
Refractive index n_D^{20}: 1.387–1.396

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

Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

sec-Butylamine



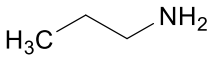
Propylamine
プロピルアミン

Standard for use

Only for flavoring

Compositional specifications

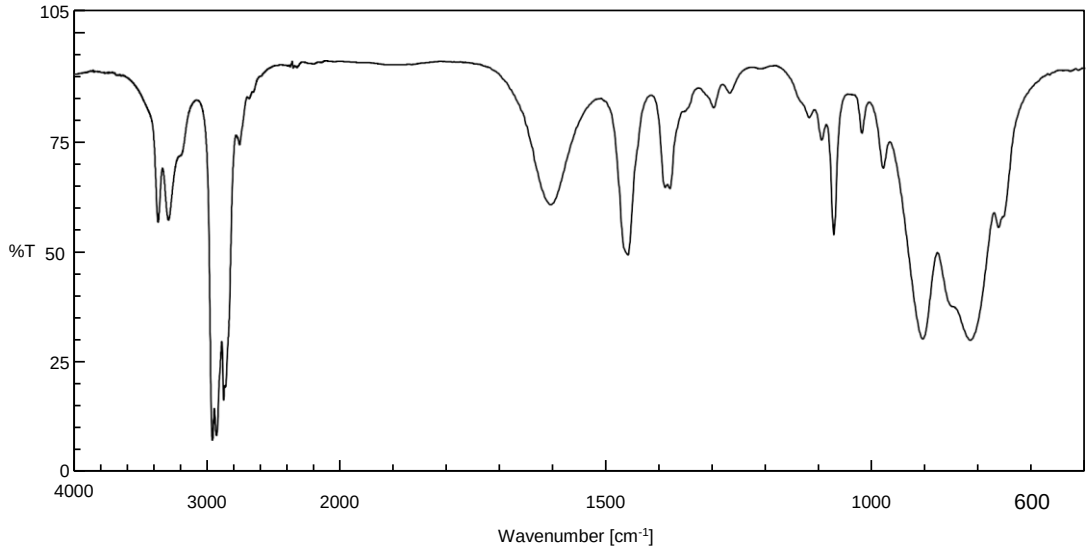
Substance name Propylamine
Structural formula



Molecular formula C_3H_9N
Molecular weight 59.11
Chemical name [CAS number] Propan-1-amine [107-10-8]
Content Propylamine contains not less than 95.0% of propylamine (C_3H_9N).
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
Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

Propylamine



Hexylamine

ヘキシルアミン

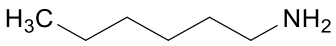
Standard for use

Only for flavoring

Compositional specifications

Substance name Hexylamine

Structural formula



Molecular formula $C_6H_{15}N$

Molecular weight 101.19

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

Content Hexylamine contains not less than 95.0% of hexylamine ($C_6H_{15}N$).

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.

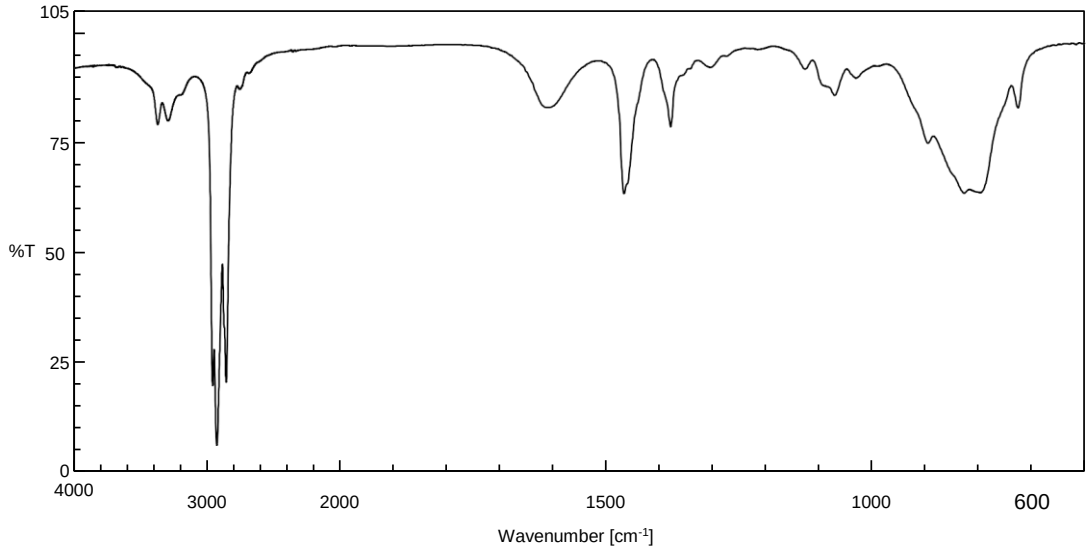
Refractive index n_D^{20}:1.415–1.421

Specific gravity d_{25}^{25}: 0.761–0.767

Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

Hexylamine



Pentylamine

ペンチルアミン

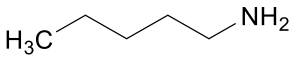
Standard for use

Only for flavoring

Compositional specifications

Substance name Pentylamine

Structural formula



Molecular formula $C_5H_{13}N$

Molecular weight 87.16

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

Content Pentylamine contains not less than 95.0% of pentylamine ($C_5H_{13}N$).

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.

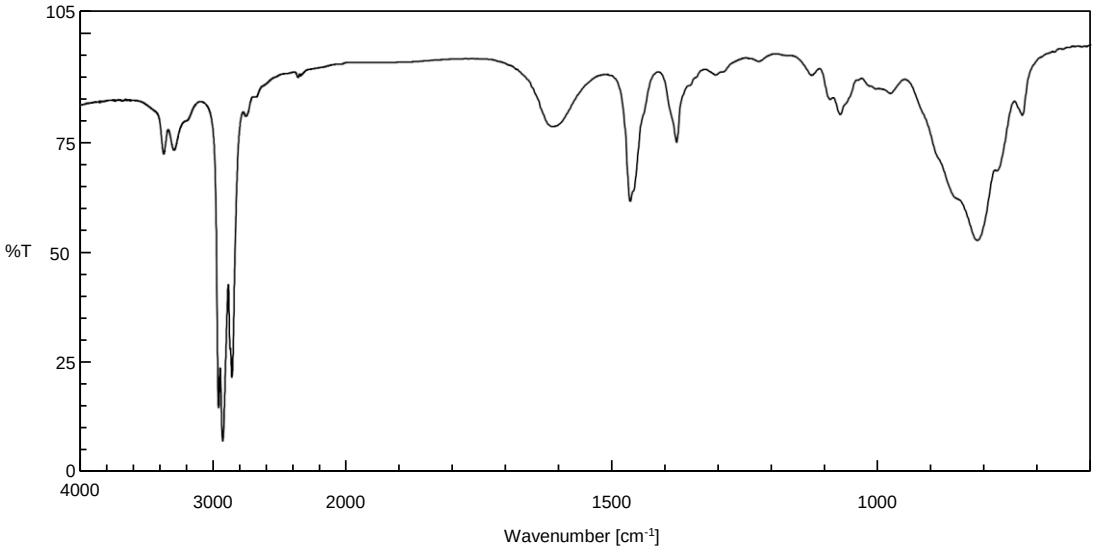
Refractive index n_D^{20}: 1.408–1.424

Specific gravity d_{25}^{25}: 0.750–0.759

Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

Pentylamine



2-Methylbutylamine

2-メチルブチルアミン

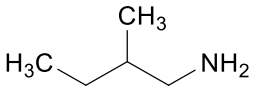
Standard for use

Only for flavoring

Compositional specifications

Substance name 2-Methylbutylamine

Structural formula



Molecular formula $C_5H_{13}N$

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 ($C_5H_{13}N$).

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.

Refractive index n_D^{20}: 1.408–1.423

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

Assay Proceed as directed in the Peak Area Percentage Method in the Gas Chromatographic Assay of Flavoring Agents under the Flavoring Substances Tests. Use operating conditions (2) except for the column. Use a fused silica tube (0.25–0.53 mm in internal diameter and 30–60 m in length) coated with a 0.25–1 μm thick layer of dimethylpolysiloxane for gas chromatography.

Reference spectrum

2-Methylbutylamine