

Product Name: Raffinate 1

Product Summary

Raffinate 1 is the fraction remaining when butadiene is extracted from the butane-butylene fraction produced as a by-product of naphtha cracking. It is used to extract isobutylene and butene-1 and as a raw material for polybutene.

Characteristics

Butene*

Isobutene

- Boiling point: -6.9°C Melting point: -140.3°C

1-Butene

- Boiling point: -6.3°C Melting point: -185.3°C Ignition point: 384°C

cis-2-Butene

- Boiling point: 0.3°C Melting point: -105.8°C Ignition point: 324°C

trans-2-Butene

- Boiling point: 3.73°C Melting point: -139.3°C Ignition point: 324°C

Butene reacts with water to produce butanol, and with hydrogen to produce butane. In addition, it forms various addition polymers.

*Butane

Boiling point: 0.5°C Melting point: -138.5°C

Butane is the smallest alkane that has isomers, one of them being methylpropane (isobutane). Butane is used as fuel for lighters and portable stoves.

Properties

Combustible gas with a characteristic odor that is colorless at ambient temperature and pressure

Storage Conditions, etc.

Keep away from heat and other ignition sources and store in a well-ventilated dry area.

Number Specified by the Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Butene (butylene): (2)-16, Butane: (2)-4

CAS Registry Number

Isobutane: 115-11-7, 1-Butene: 106-98-9, trans-2-Butene: 624-64-6, cis-2-Butene: 590-18-1, n-Butane: 106-97-8

Relevant Laws and Regulations

The Industrial Safety and Health Act, the High Pressure Gas Safety Act, the Civil Aeronautics Act, the Ship Safety Act, the Port Regulations Act, the Road Act

Inquiries

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