

Product Name: Pyrolysis Gasoline

Product Summary

Pyrolysis gasoline is a mixture of C6 to C8 hydrocarbons that is produced as a by-product of naphtha cracking. It contains a large number of aromatic hydrocarbons and serves as a raw material used to extract benzene, toluene, and xylene.

Characteristics

Pyrolysis gasoline (mixture)

- Flash point: $\leq -20^{\circ}\text{C}$ Density: $0.85\text{--}0.86\text{ g/cm}^3$ (15°C)

Benzene

- Boiling point: 80.1°C
- Benzene is an aromatic hydrocarbon with the simplest structure.
- It consists of six carbon atoms arranged in a planar hexagonal pattern.

Toluene

- It has a structure in which one of the hydrogen atoms in the benzene ring is replaced with a methyl group.
- It is highly insoluble in water and miscible in alcohol and oil.
- It is widely used as a solvent but is volatile and flammable at room temperature.
- It has anesthetic effects at high concentrations and is very toxic.

Xylene

- Xylene has three different isomers: 1,2-dimethylbenzene (ortho-xylene), 1,3-dimethylbenzene (meta-xylene), and 1,4-dimethylbenzene (para-xylene).
- These isomers are flammable and burn with soot. They are highly insoluble in polar solvents and soluble in nonpolar solvents.

Styrene

- Boiling point: $145\text{--}146^{\circ}\text{C}$
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Properties

Light yellow liquid with an oily smell

Storage Conditions, etc.

Use explosion-proof electrical equipment in the storage location and ground all electrical equipment. Keep the container away from direct sunlight and store in a cool, dark place in a well-sealed container to avoid air exposure. Do not place the container near heat sources or combustibles. Do not store the container with oxidants, organic peroxides and similar.

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

Benzene: (3)-1, Toluene: (3)-2, Xylene: (3)-3, Styrene: (3)-4

CAS Registry Number

Benzene: 71-43-2, Toluene: 108-88-3, o-Xylene: 95-47-6, m-Xylene: 108-38-3, p-Xylene: 106-42-3, Styrene: 100-42-5

Relevant Laws and Regulations

The Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement, the Industrial Safety and Health Act, the Fire Service Act, the High Pressure Gas Safety Act, the Poisonous and Deleterious Substances Control Act, the Narcotics and Psychotropics Control Act, the Offensive Odor Control Act, the Water Pollution Prevention Act, the Sewerage Act, the Water Supply Act, the Air Pollution Control Act, the Act on Prevention of Marine Pollution and Maritime Disaster, the Act on Waste Management and Public Cleaning, the Act for the Control of Export and Import of Specified Hazardous and Other Wastes, the Civil Aeronautics Act, the Ship Safety Act, the Port Regulations Act, the Road Act, the Foreign Exchange and Foreign Trade Act

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