

1,3- BUTADIENE

PRODUCTION:

1,3-butadiene is producing by the extractive distillation of C4-fractions. It is a two-stage process under the Nippon Zeon (Japan) license, where the 1,3-butadiene is extracted and solved and then separated from the solvent and finally purified.

DESCRIPTION:

1,3-butadiene ($\text{CH}_2 = \text{CH} - \text{CH} = \text{CH}_2$) is unsaturated hydrocarbon, with two double bonds (diene). At room temperature it is a colorless gas, slightly aromatic odoured, non corrosive but very reactive and flammable.

SPECIFIED PROPERTIES:

No.	PROPERTY	TEST METHOD	UNIT	VALUE
1	1,3-Butadiene content	ASTM D 2593	% (m/m)	min 99.5
2	Total acetylenes content	ASTM D 2593	ppm (m/m)	max 100
3	Propadiene content	ASTM D 2593	ppm (m/m)	max 5
4	1,2-Butadiene content	ASTM D 2593	ppm (m/m)	max 50
5	C ₅ Hydrocarbons content	ASTM D 2593	ppm (m/m)	max 50
6	Solvent (DMF) content	Internal method MA0732-UP022	ppm (m/m)	max 5
7	4-vinylcyclohexene content	ASTM D 2426	ppm (m/m)	max 100*
8	Carbonile content (as acetaldehyde CH_3CHO)	ASTM D 4423	ppm (m/m)	max 50
9	Non-evaporable residue content	ASTM D 1025	ppm (m/m)	max 1000
10	Inhibitor carrier content (toluene)	ASTM D 2426	% (m/m)	max 0.12
11	Inhibitor content (TBC)	Internal method MA0731-UP010	ppm (m/m)	75-120*
12	Peroxide content (as hydrogen peroxide H_2O_2)	ASTM D 5799	ppm (m/m)	max 5
13	Sulphur (total)	ASTM D 6667	ppm (m/m)	max 5

*At the time of loading

The values given used only as information.



PETROHEMIJA

BASIC PRODUCTS

APPLICATION:

1,3-Butadiene is utilized as raw material of Synthetic Rubber (styrene-butadiene, nitrile butadiene, cis-polybutadiene rubber). It is also used in the production of plastic materials, paints and synthetic resins.

TRANSPORTATION

1,3 butadiene is stored and transported as a liquefied gas. Product is transported by rail tank cars and tank trucks.

HANDLING AND STORAGE:

Safety measures during handling, storage and in the event of accident are described in the Safety Data Sheet (SDS)

Storage condition: 1,3 butadiene should be stored in a vertical spherical tank for liquefied petroleum gas. The pressure inside a tank should be maintained at defined values, and in the case of pressure increase, safety valves are activated. A tank must have thermal insulation to prevent heating caused by the solar radiation.

REACH:

HIP-Petrohemija with applying the existing standards ISO 9001, ISO 14001, ISO 45001 and ISO 50001 follows completely the highest standards by which there are regulated human health and safety protection and environmental protection, and herewith expresses its intention to meet all the requirements which are prescribed by REACH regulation.

Registration of all the substances of potential export interest has been made with European Agency for Chemicals (ECHA), in accordance with the prescribed deadlines, therefore in this way it enables further undisturbed placement and sale of HIP-Petrohemija's products without any limits at EU Market.

Only representative for HIP-Petrohemija, pursuant to Article 8. of REACH regulation, is REACHLaw ltd., Finland.

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