

## **BUTENE - BUTANE RAFFINATE (RAFFINATE 2)**

### ***PRODUCTION:***

Raffinate 2 is a secondary product obtained from raffinate 1 after separation of isobutene. It belongs to a group of liquid petroleum gases.

### ***DESCRIPTION:***

Raffinate 2 is the hydrocarbon (butene-butane) gas mixture. It is flammable, colorless gas, with slight aromatic odor. It is not corrosive to the carbon steels.

### ***SPECIFIED PROPERTIES:***

No.	CHARACTERISTIC	METHOD	UNIT	VALUE
1.	C <sub>4</sub> hydrocarbon	ASTM D 2593	% (m/m)	min 90
2.	Methanol	ASTM D 2426	% (m/m)	max 5
3.	MTBE	ASTM D 2426	% (m/m)	max 0.1
4.	Total sulphur	ASTM D 3246	ppm (m/m)	max 5
5.	Free water	visually	-	none

The values given in the table use only as information.

### ***APPLICATION:***

Raffinate 2 is used as a feedstock for various chemical products like butene-1, polybutenes, alpha-polybutenes, maleic acid anhydride, methyl-ethyl ketone, etc. It also can be used as an energy fuel for industrial dryers, furnaces and boilers.

***STORAGE:***

Butene-butane raffinate (Raffinate 2) is stored and kept in a standing, spherical storage tank for liquefied petroleum gas. The pressure in the tank is maintained at the defined values, and in the case of the pressure increase, safety valves react. To prevent heating under the influence of solar radiation, the tank has its own system for sprinkling.

***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 in Helsinki, 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.

As the only representative for HIP-Petrohemija in EU, pursuant to Article 8. of REACH regulation, there has been designated REACHLaw ltd., Finland.

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