



PETROHEMIJA

## C<sub>4</sub> FRACTION

### **PRODUCTION:**

The fraction of unsaturated C<sub>4</sub> i C<sub>5</sub> hydrocarbons is separated within the debutanizer column, which is fed by the steam from the bottom of the depropanizer stripper.

### **DESCRIPTION:**

The C<sub>4</sub> fraction, a mix of saturated and unsaturated hydrocarbons, is colourless and flammable liquid. The composition of C<sub>4</sub> fraction includes most of all 1,3-butadiene, isobutene and butene-1.

### **SPECIFIED PROPERTIES:**

No	PROPERTY	TEST METHOD	UNIT	VALUE
1.	1,3-butadiene	SRPS H.B9.100	% (m/m)	min 43 max 60
2.	Izobutene	SRPS H.B9.100	% (m/m)	min 20 max 42
3.	1- butene	SRPS H.B9.100	% (m/m)	min 1 max 15
4.	C <sub>3</sub> - fraction	SRPS H.B9.100	% (m/m)	max.0,7
5.	C <sub>5</sub> - fraction	SRPS H.B9.100	% (m/m)	max 0,3
6.	n-butane	SRPS H.B9.100	% (m/m)	min 0,5 max 15
7.	Izobutane	SRPS H.B9.100	% (m/m)	min 0,3 max 6
8.	trans-2- butene	SRPS H.B9.100	% (m/m)	max 5
9.	cis-2-butene	SRPS H.B9.100	% (m/m)	max 4
10.	1,2 butadiene	SRPS H.B9.100	% (m/m)	max 0,5
11.	Vinyl-acetylene	SRPS H.B9.100	% (m/m)	max 2,5
12.	Ethyl-acetylene	SRPS H.B9.100	% (m/m)	max 2
13.	Methyl-acetylene	SRPS H.B9.100	% (m/m)	max 0,4

SRPS – National Standard Method

The values given in the table are for informative proposes.

### **APPLICATION:**

C<sub>4</sub> fraction is used for the separation of pure components which are further applied in the production of synthetic rubber, latexpaints, synthetic resins, styren-butadiene, polybutadiene rubber, nitrile rubber, ABS, etc.

**BASIC PRODUCTS**

***STORAGE:***

C<sub>4</sub> fraction is stored in spherical tanks. The construction and material for making these tanks have to be in compliance with the regulations concerning the storage of liquefied, flammable gases.

***TRANSPORTATION:***

C<sub>4</sub> fraction is transported by rail tank cars subject to the requirements for liquefied gases transportation. These rail tank cars have to be attested at the lowest test pressure of 10 bar. Internal test pressure at 15 °C have to be 1.5 times higher than the lowest test pressure. The maximum allowable weight for charging is 0,50 kg/l tank volume.

***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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