

ETHYLENE

PRODUCTION:

The process of ethylene production involves the low-octane naphtha cracking, the heat recuperation of the outlet streams from the furnace, crack-gas cooling and compression, acid gasses removal and dehydration, and coproducts separation and purification.

DESCRIPTION:

Ethylene is unsaturated hydrocarbon ($\text{CH}_2 = \text{CH}_2$), colorless at room temperature, sweet-odoured, and flammable.

Ethylene produced in HIP-Petrohemija a.d. Pančevo is a polymer grade, with the minimum purity of 99.9 %.

SPECIFIED PROPERTIES:

No.	PROPERTY	TEST METHOD	UNIT	VALUE
1	Ethylene	SRPS H.B8.702	% (V/V)	min 99.9
2	Inerts (CH_4 , C_2H_6 , N_2)	SRPS H.B8.700 SRPS H.B8.702	% (V/V)	max 0.1
3	C_3 and heavier	SRPS H.B8.702	ppm (V/V)	max 25
4	Acetylene	SRPS H.B8.702	ppm (V/V)	max 10
5	Carbon monoxide	SRPS H.B8.700	ppm (V/V)	max 1
6	Carbon dioxide	SRPS H.B8.702	ppm (V/V)	max 6
7	Hydrogen	SRPS H.B8.700	ppm (V/V)	max 10
8	Oxygen	SRPS H.B8.700	ppm (V/V)	max 5
9	Total sulphur	SRPS B.H8.125	ppm (m/m)	max 1
10	Carbonyls	MA0745-UP073	ppm (m/m)	max 1
11	Alcohols (as methanol))	MA0745-UP071	ppm (m/m)	max 1
12	Ammonia	MA0745-UP072	ppm (m/m)	max 1
13	Moisture	MA0743-UP051	ppm (V/V)	max 5

MA – HIPP's Internal Method

SRPS –National Standard Method

The values given in the table are specified and used only as information.



PETROHEMIJA

BASIC PRODUCTS

APPLICATION:

Ethylene in further processing is used for the production of polyethylene, ethylene oxide, ethylene glycol, ethyl alcohol, styrene, detergents etc.

STORAGE:

Ethylene is stored in cylindrical tanks. The design and material of these tanks have to be in compliance with the regulations prescribed for storage of liquefied flammable gases. The temperature inside these tanks is maintained at -103,9 °C and pressure from 15mbarg to 25mbarg.

TRANSPORTATION:

From the plant ethylene is transported through the pipelines to some destinations for further processing. If transported by tank cars, they have to be in accordance with the requirements of the existing standards concerning the transportation of liquefied flammable gases. Tank cars for this purpose are made of carbon steel.

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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