



# Petrochemistry

## Product Catalog



**2019**

# STYRENE

## Technical characteristics

GOST 10003-90 with Amendment 1, Superior grade

### Parameters:

Styrene mass fraction, %, min	99,8	
Phenylacetylene mass fraction, %, max	0,01	
Divinylbenzene mass fraction, %, max	0,0005	
Carbonyl compounds (as benzaldehyde) mass fraction, %, max		0,01
Peroxide compounds (as active oxygen) mass fraction, %, max.		0,0005
Polymer mass fraction, %, max	0,001	
Colour, Pt-Co Scale, Hazen, max.	10	
Stabilizer (para-tret-butyl-pyrocatechol) mass fraction, %, max		0,0005-0,0010

## STYRENE

GOST 10003-90 with Amendment 1

Properties	Superior grade	1 <sup>st</sup> grade
Styrene mass fraction, %, min	99,8	99,6
Phenylacetylene mass fraction, %, max	0,01	0,02
Divinyl benzene mass fraction, %, max	0,0005	0,0005
Carbonyl compounds (as benzaldehyde) mass fraction, %, max	0,01	0,02
Peroxide compounds (as active oxygen) mass fraction, %, max.	0,0005	0,0005
Polymer mass fraction, %, max	0,001	0,001
Colour, Pt-Co Scale, Hazen, max.	10	10
Stabilizer (para-tret-butyl-pyrocatechol) mass fraction, %, max	0,0005-0,0010	0,0005-0,0010

## HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Easily ignitable liquid with weak specific odour. Regarding influence on a human body belongs to 3<sup>rd</sup> class of danger – a substance of moderate danger. Complete safety requirements are written in the safety data sheet.

## TRANSPORTATION

In railway tank cars, tank-containers, in bulk

## APPLICATION

Production of expandable polystyrene, production of styrenic copolymers, manufacturing of UP/VE resins and formulated resins, FRP (fibre reinforced plastic) manufacturing in an industrial setting, production of styrene butadiene rubber, production of styrene butadiene latex, production of styrene isoprene copolymers, production of other styrene based polymeric dispersions, production of filled polyols.

## 2-ETHYLHEXANOL

### Technical characteristics

GOST 26624-85 with Amendment 1, Superior grade

#### Parameters:

Color index on platinum cobalt color scheme, Hazen unit, max 10

Density at 20 °C, g/cm<sup>3</sup> 0,831-0,833

Mass fraction of 2-ethylhexanol, %, min 99

Mass fraction of 2-ethyl-4-methylpentanol, %, max 0,5

Acid number, mg KOH/g, max 0,03

Mass fraction of aldehydes and ketones (in terms of 2-ethylhexanal), %, max 0,05

Mass fraction of unsaturated compounds (in terms of 2-ethylhexenal), %, max 0,02

Mass fraction of water, %, max 0,1

## 2-ETHYLHEXANOL

GOST 26624-85 with Amendment 1

Properties	Superior grade	1 <sup>st</sup> grade
Color index on platinum cobalt color scheme, Hazen unit, max	10	10
Density at 20 °C, g/cm <sup>3</sup>	0,831-0,833	0,830-0,833
Mass fraction of 2-ethylhexanol, %, min	99	98
Mass fraction of 2-ethyl-4-methylpentanol, %, max	0,5	1,5
Acid number, mg KOH/g, max	0,03	0,05
Mass fraction of aldehydes and ketones (in terms of 2-ethylhexanal), %, max	0,05	0,1
Mass fraction of unsaturated compounds (in terms of 2-ethylhexenal), %, max	0,02	0,05
Mass fraction of water, %, max	0,1	0,2

### HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Flammable liquid. Hazardous class 3. Irritating to skin and mucous membrane of respiratory tract. Complete safety requirements are written in the safety data sheet.

### TRANSPORTATION

In railway tank cars, tank-containers, in bulk

### APPLICATION

For synthesis of plasticizers, stabilizers, lubricating oil additives as well as for application as solvent.

## ETHANOL

### Technical characteristics

#### Parameters:

Alcohol Strength at 20 deg C, vol % 99,7 min

Water content, wt, % 0,3 max

Acids concentration calculated as acetic acid, wt, % 0,010 max

Acetic Aldehyde, wt, % 0,7 max

Croton Aldehyde, wt, % 0,1 max

Diethyl ether, wt, % 0,45 max

Density at 20 deg C, kg/l 0,792 max

Bitrex, ppm 17 max

Color as per Hazen 15 max

Acetone, ppm 500 max

## ETHANOL

Parameters	Values	Method of analysis
Alcohol Strength at 20 deg C, vol %	99,7 min	D4052/OIML
Water content, wt, %	0,3 max	ASTM E 1064
Acids concentration calculated as acetic acid, wt, %	0,010 max	ASTM D 1613
Acetic Aldehyde, wt, %	0,7 max	EN 15721 MOD
Croton Aldehyde, wt, %	0,1 max	EN 15721 MOD
Diethyl ether, wt, %	0,45 max	EN 15721 MOD
Density at 20 deg C, kg/l	0,792 max	ASTM D 4052
Bitrex, ppm	17 max	
Color as per Hazen	15 max	ASTM D1209-5
Acetone, ppm	500 max	

### HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Highly flammable liquid. Causes serious eye irritation. Hazard class 3. Complete safety requirements are written in the safety data sheet.

### TRANSPORTATION

In railway tank cars, in tank-containers, in bulk

### APPLICATION

Solvents, anti-freezing agents, heat transfer agents, fuels and fuel additives

## ACETONE

### Technical characteristics

GOST 2768-84 with changes 1-2, Superior grade

#### Parameters:

Appearance	Clear, colourless liquid
Acetone by mass, %, min	99,7
Density at 20°C, g/cm <sup>3</sup> , min	0,789-0,791
Water fraction by mass, %, max	0,2
Metanol by mass, %, max	0,05
Mass fraction of acids in terms of acetic acid, %	0,001
Oxidation stability of potassium permanganate, hours, min	4

## ACETONE

GOST 2768-84 with changes 1, 2

Properties	Superior grade
Appearance	Clear, colourless liquid
Acetone by mass, %, min	99,7
Density at 20°C, g/cm <sup>3</sup> , min	0,789-0,791
Water fraction by mass, %, max	0,2
Metanol by mass, %, max	0,05
Mass fraction of acids in terms of acetic acid, %	0,001
Oxidation stability of potassium permanganate, hours, min	4

### HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Highly flammable liquid. Causes serious eye irritation. Hazard class 3. Complete safety requirements are written in the safety data sheet.

### TRANSPORTATION

In railway tank cars, in bulk

### APPLICATION

As intermediate (chemical feedstock) in production of other chemicals, as formulating solvent

## BENZENE STILL RECTIFICATION RESIDUE C9

### Technical characteristics

#### Parameters:

Appearance transparent liquid of yellow color with no mechanical impurities

Water, ppm 160

Density 15°C, kg/m<sup>3</sup> 932

Refractive index 20°C 1,531

Styrene, wt% 1,6

AMS, wt% 2,6

Endo-DCPD, wt% 9,3

Methyl-DCPD, wt% 0,8

Indene, wt% 18,1

Vinyltoluene, wt% 13

Methyl-Indene, wt% 6,3

Naftalene, wt% 7,7

Sulfur, ppm 580

## BENZENE STILL RECTIFICATION RESIDUE C9

Specification parameters	Test results
Appearance	transparent liquid of yellow color with no mechanical impurities
Water, ppm	160
Density 15°C, kg/m <sup>3</sup>	932
Refractive index 20°C	1,531
Styrene, wt%	1,6
AMS, wt%	2,6
Endo-DCPD, wt%	9,3
Methyl-DCPD, wt%	0,8
Indene, wt%	18,1
Vinyltoluene, wt%	13
Methyl-Indene, wt%	6,3
Naftalene, wt%	7,7
Sulfur, ppm	580

### HAZARD IDENTIFICATION AND SAFETY REQUIREMENTS

Flammable, hazardous substance.

### TRANSPORTATION

In rail tank cars, tank-containers

Dear partners!

If you are interested in purchasing petrochemistry, we suggest that you submit a written Irrevocable Confirmation Purchase Order (ICPO) with the following content:

1. Product name
2. Delivery quantity
3. Price / Formula / Pricing terms
4. Delivery basis
5. Delivery direction (destination station - for shipment by train)
6. Delivery period
7. Mode of transportation
8. Terms of payment
9. Dated

The ICPO for the purchase of petroleum products must be signed by an authorized person and sealed by the organization. The ICPO must contain the following information and permission for soft prob:

THE BANK INFORMATION OF THE BUYER:

The name of bank:

The address of bank:

The Buyer's account:

SWIFT code:

Name of the bank officer:

Phones:

Faxes:

E-mail:

We also give our sanction to the Bank of the Seller to make inquiry of our solvency concerning the given transaction (Soft Prob") in our Bank, thus we authorize our Bank to give the necessary information according (to the code \_\_\_\_\_) in the period from "" \_\_\_ of 2019 to " \_" \_\_\_ of 2019.

(The name of the head of the bank, Signarure, the Date)

(The name of the bank officer, Signarure, the Date)

Seal of the Bank

The given document is a legal basis for transferring by the Seller of the accepted terms and parameters to the project of the prepared Contract, and also is an integral part of the future Contract and is valid within 60 (sixty) calendar days from the date of its issue.

(First, Last Name of the Signatory)

Signature, The seal used by the Company for bank sealing

Attached: bank account statement

Brgds

Ajit Akerkar

(Director)

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(Consultant & Brokers of Russian Steam Coal, Anthracite & PCI, Coking Coal, Coke, Petrochemistry Products & Metal Scraps)

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