



## RESIN FEED

Complex mixture of (mainly aromatic) C9 – C10 hydrocarbons

### General

RESIN FEED is a mixture of (mainly aromatic) C9 and C10 components rich in indene and methylstyrenes (vinyltoluenes). It originates from high temperature cracking of petroleum fractions and is separated by distillation of benzene from pyrolysis gasoline. As a distillation bottoms product it contains heavier components such as naphthalene.

RESIN FEED is used to produce hydrocarbon resins. Major applications of these resins are in printing inks, hot melt pressure sensitive adhesives, rubbers, paints, varnishes and road marking paints. Furthermore, the resins can be used in concrete curing additives, sealings, floor-tiles, foundry core binding and for paper sizing.

### Available Grades

RESIN FEED

- A mixture of C9's rich in indene and vinyltoluenes.

### Physical Properties

RESIN FEED is a clear to yellow liquid with a strong aromatic or camphor like odor. Because it consists of a great variety of components it has no clear freezing point or boiling point, but freezing and boiling ranges. The products are immiscible / insoluble in water. The material originates from petroleum cracker operations, hence as supplied is low in sulfur.

The tables below summarize product typical properties and typical compositions are given.

### Product Typical Properties

Test Parameter	RESIN FEED
Color (Gardner)	8 - 10
Specific Gravity (20 °C) (Water=1)	0.935
Vapor Pressure (20 °C)	~ 9.3 hPa
Relative Vapor Density (Air=1)	4.5
Flash Point (°C)	45
Pour Point (°C)	-10
Boiling Point (°C)	160 - 220
Autoignition Temp. (°C)	500
Octane Number (MON)	~ 90
Octane Number (RON)	~102
Water (%-w/w)	0.009
Sulfur (%-w/w)	0.006
Odor	Strong aromatic
Appearance	Clear and yellow liquid

*Note 1: Data above are based on average production data from 2004. As the products originate from petroleum cracker operations these values may vary during the year as result of changing operational conditions of the cracker.*

*Note 2: The data above are typical values, not to be construed as specifications. Users should confirm results by their own tests.*

## Product Typical Composition

Component	RESIN FEED
Ethylbenzene	0 – 0.5 %
Xylenes	0 – 1 %
Styrene	0 – 3 %
alpha-Methylstyrene	0 – 5 %
Dicyclopentadiene	0 – 1 %
Vinyltoluenes	15 – 25 %
Indene	20 – 25 %
Methylindenes	5 – 15 %
Naphthalene	5 – 15 %
Benzene	< 0.1 %

Note 1: All data are given in %-w/w unless stated otherwise.

Note 2: Data above are based on average production data from 2004. As the products originate from petroleum cracker operations these values may vary during the year as result of changing operational conditions of the cracker.

Note 3: The data above are typical values, not to be construed as specifications. Users should confirm results by their own test.

## Production Locations

- Terneuzen (The Netherlands)

## Suggested Applications

RESIN FEED are best used to produce hydrocarbon based resins such as C9 aromatics based resins. These resins typically are used in applications in which the color of the resin is not a key factor such as printing inks, road markings or paints.

In addition, RESIN FEED may be used as a component for gasoline blending. When considering this application it is important to realize that these products are richer in resin forming components than most refinery blend components. This may require blending with more saturated materials or additional stabilization.

## More Information

For more information about the aromatic products of Dow (i.e. Sales Specifications, (Material) Safety Data Sheets, Availability, Technical Services & Development, Regulatory Status and other information) please visit our website at:

[www.dowaromatics.com](http://www.dowaromatics.com)

### Customer Information Center:

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