



Shell Chemicals

# Shell LINEVOL® 911

## TECHNICAL DATASHEET

SICC Product Code: V9332

CAS Registry Number: 66455-17-2

### Description

Shell LINEVOL® 911 is a blend of C9, C10 and C11 high purity primary alcohols manufactured using the Shell Hydroformylation (SHF) process. Shell LINEVOL® alcohols are used as intermediates to produce high quality plasticizers.

### Specification Properties – Shell LINEVOL® 911

| Property              | Unit               | Value   | Method <sup>a</sup> |
|-----------------------|--------------------|---------|---------------------|
| Normality             | %m/m               | >80     | SMS 2914            |
| Color                 | Pt-Co (APHA)       | <10     | ASTM D1209          |
| Carbonyl as C=O       | mg/kg              | <80     | SMS 2097            |
| Acid Number           | eq/100g            | <0.0005 | SMS 2912            |
| Water                 | %m/m               | <0.1    | ASTM E1064          |
| Appearance            | CSFVM <sup>b</sup> | Pass    | Visual              |
| C8 Alcohols & Lower   | %m/m               | <1      | SMS 2914            |
| C9 Alcohols           | %m/m               | 18      | SMS 2914            |
| C10 Alcohols          | %m/m               | 42      | SMS 2914            |
| C11 Alcohols          | %m/m               | 38      | SMS 2914            |
| C12 Alcohols & Higher | %m/m               | <2      | SMS 2914            |
| Total Hydrocarbons    | %m/m               | <0.5    | SMS 2914            |

Notes:

a SMS = Shell Method Series. b CSFVM = Clear and substantially free of Visible impurities.

**Typical Physical Properties – Shell LINEVOL® 911**

| Property                     | Unit                      | Value   | Method     |
|------------------------------|---------------------------|---------|------------|
| Density @ 25°C               | kg/L                      | 0.827   | ASTM D4052 |
| Molecular Mass               | g/mol                     | 158-164 | Calculated |
| Flash Point                  | °C                        | 108     | ASTM D92   |
| Flash Point                  | °F                        | 226     | ASTM D92   |
| Pour Point                   | °C                        | -12     | ASTM D97   |
| Pour Point                   | °F                        | 10      | ASTM D97   |
| Viscosity, Kinematic @ 40 °C | cST or mm <sup>2</sup> /s | 9       | ASTM D445  |

**Test Methods**

Copies of copyrighted test methods can be obtained from the issuing organizations:

- American Society for Testing and Materials (ASTM)

Shell Method Series (SMS) methods are issued by Shell Global Solutions International B.V., Shell Technology Centre, Amsterdam, The Netherlands. Requests for copies of SMS can be made through your local Shell Chemicals company.

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

**Hazard Information**

Shell LINEVOL® alcohols exhibit low oral, skin and respiratory toxicity. Generally, these alcohols are slightly to moderately irritating to the eyes and skin. Prolonged or repeated skin contact with undiluted alcohols may lead to defatting of the skin and ultimately cause dermatitis. Before handling the product refer to the Safety Data Sheet, which is available online or from your local Shell Chemicals representative. For detailed Hazard Information please refer to the Safety Data Sheet.

Access Safety Data Sheets here: [Safety Data Sheets](#)

**Storage and Handling**

Advice on the storage and handling of Shell LINEVOL® alcohols can be found on our web site at [www.shell.com](http://www.shell.com) or by contacting your local Shell Chemicals representative.

**Shell Warranties**

All products purchased or supplied by Shell chemicals companies are subject to the terms and conditions set out in the contract, order confirmation and/or bill of lading. All



**Shell Chemicals**

other information supplied by Shell chemicals companies, including that herein, is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine a product's suitability for a particular purpose. Except as may be set forth in the applicable contract, order confirmation and/or bill of lading, Shell chemicals companies make no warranty, express or implied, including regarding any information supplied or the data upon which it is based or the results to be obtained from the use of such products or information, or concerning product, whether of satisfactory quality, merchantability, fitness for any particular purpose or otherwise, or with respect to intellectual property infringement as a result of use of information or products, and none shall be implied.

The expression 'Shell Chemicals' refers to the companies of Shell Plc./Shell Group that are engaged in chemical businesses. Each of the companies that make up Shell Plc./Shell Group of companies is an independent entity and has its own separate identity.

Learn more at [www.shell.com/chemicals](http://www.shell.com/chemicals)