

# Contents

## EDITORIAL

Changing Times... 05

## Report Abstracts

Global Conductive Inks Market: Overview 09

Propanol Market - Global Industry Analysis, Size, Share, Growth, Trends, & Forecast 2017 - 2025 10

## Featured Stories

India's pharmaceutical supply chain and the way ahead 13

Taking Perfumery Industry to the next level 21

## News Round Up

Reliance Industries Win Prestigious 'DuPont Operation Excellence Award' 33

GACL Achieves highest ever Q-1 Net Sales Turnover 33

Modern Textiles - Skin Friendly and Odourless 34

The best in water treatment - LANXESS doubles membrane production capacity 35

New Reverse Osmosis Membrane Elements Impress in Practice 36

LANXESS expands range of membranes for reverse osmosis 60

DMAI Honors Huntsman Textile Effect 61

Lower emissions in car interiors with improved BASF polyether polyols 61

LANXESS India wins the TRILA award for the category - 'Company of the year - Rubber Chemicals' for second consecutive year 62

Growth in pharma sector to boost laboratory, analysis and diagnostics markets 62

GST: "The situation will be normal from August," says Mr. Jain, KNPL 69

Views & Statements 38

Advertising Options 40

Events & Conferences 50

Sales Enquiries 65

Purchase Enquiries 67

Magazine Subscription Form 66

## Market Prices

Chemical Indian Ports Prices / Booking Prices

Producer Prices 43

Dyes Market Prices 46

Dyes Intermediates Market Prices 53

Pharmaceuticals Market Prices 54

## NEWS SNIPPETS

Drug and Pharma News 18

Chemical Technology 25

New Products 26

Mergers And Acquisitions 32

News From Abroad 57

**Visit our Inventory Sharing Platform and Signup to upload your products. A one of it's kind platform in the chemical raw materials industry for Distributors, Manufacturers and Traders**

**Director:**  
Parimal Parikh

**Contact us for advertising/subscription**  
info@dyeschemicalmarket.com

4, Tiwari Bhuwan, Ground Floor, Subhash Lane, Near Mayur Cinema, Kandivali West Mumbai 400067.  
Mobile:91-87798-30330  
Phone:91-98196-44048 / 91-98191-92475  
Email: info@dyeschemicalmarket.com

**Editor:**  
Vibhakar B. Parikh

**Website:**  
www.dyeschemicalmarket.com

**Co-Editor:**  
Rajiv Parikh

**Online Subscription:**  
www.dyeschemicalmarket.com/subscribe

**Printed at**  
Alps Printing Press 202/203, Alankar Ind Estate, Off Arrey Road, Goregoan (E), Mumbai - 400063

**Content Editors:**  
Binjal Vora  
Vandita Jadeja

**Advertise with us:**  
www.dyeschemicalmarket.com/tariffs

**Office Address:** DCM Media Private Limited  
Level 17, DLH Park Compound,  
S.V.Road, Goregoan West, Mumbai - 400064  
Phone: 98196-44048/91-877-9830330

**Designer:**  
Arjun K A

**Published by**  
**Parimal B. Parikh** at

# Global Conductive Inks Market: Overview

*The report "Global Conductive Inks Market", published by ReportLinker is an award-winning market research solution. You can visit them at <http://www.reportlinker.com>*

Conductive ink is applied on an object which primarily conducts electricity.

Conductive inks for printed and flexible electronics are one of the prime materials.

Growing proliferation of printed electronics in different industries is one of the major driving factors for the market. Printed electronics can be used in a wide range of applications which include organic photovoltaic cells (OPVs), and organic light emitting diodes (OLEDs) among others. With technological advancement, different sort of nano-patterning methods have been developed for instance nano-imprinting and nano-contact printing to improve light extraction from OLEDs which is also contributing on the positive development of the conductive inks market.

Rising demand for barcode and RFID scanner is influencing the growth of conductive inks market globally. With increasing technological advancement, conductive inks are adopted extensively across various digital cameras, smart phones, laptops and various AIDC devices among others. Growing application of printed circuit boards, circuits, antennas, biosensors, sensors, printed heaters, touch screens and touch switches in different industries are also acting as a major driving factor for the conductive inks globally.

Growing demand for smaller compact devices in semiconductor industry as well as advanced consumer electronics is increasing the application of conductive

inks in order to replace the bulky, heavy, energy-consuming wires. Technological developments are a major driver of the conductive inks market in different developing countries. Increasing application of RFID tags in different industries along with rising demand for printed circuit boards in different equipment is acting as a major driver for the conductive inks market globally.

### Global Conductive Inks Market: Market Segmentation

Based on type, the market for conductive inks has been segmented into silver conductive inks, copper conductive inks, conductive polymers, conductive nanotube ink, and graphene / carbon ink among others. On the basis of application, the market has been segmented into the market for conductive inks have been segmented into photovoltaic cells, displays, RFID (radio frequency identification), printed circuit board, and biosensors among others. By geography, the market is segmented into Asia Pacific, Europe, North America, South America and Middle-East & Africa (MEA). By revenue, Asia Pacific accounted for the largest share in the conductive inks market in 2016.

### Global Conductive Inks Market: Scope of Study

The key players in the conductive inks market have been competitively profiled across the five broad geographic regions.

This competitive landscape is inclusive of the various business strategies adopted by these major players and their recent developments in the field of conductive inks. Further, the report includes the market attractiveness analysis of different type and application of the conductive inks.

The report also offers assessment of different drivers that is impacting the global market, along with the restraints and opportunities that has also been covered under the scope of this research. For each segment (such as type, and application), market dynamics analysis has been provided. All these factors help in determining different trends that has been impacting the overall market growth. Moreover, after taking into consideration all these factors, an extensive analysis of the region wise growth parameters of conductive inks market along with the overall assessment for the forecast period of 2017-2025 has been also been provided within this report. Moreover, the report includes the patents analysis is also included in the scope of the research.

### Global Conductive Inks Market: Competitive Landscape

Some of the leading players in the conductive inks market are E. I. du Pont de Nemours and Company (The U.S.), Henkel AG & Co. KGaA (Germany), NovaCentrix (The U.S.), Vorbeck Materials Corporation, Inc. (The U.S.), Intrinsic Materials, Inc. (The U.S.), Heraeus Holding GmbH (Germany), Johnson Matthey PLC (The U.K.), Sun

## Research Reports Abstracts

Chemical Corporation (The U.S.), Creative Materials Inc. (The U.S.) and Applied Ink Solutions (The U.S.) among others.

The global conductive inks market has been segmented as follows:

### Global Conductive Inks Market by Type

Silver Conductive Inks  
Copper Conductive Inks  
Conductive Polymers  
Conductive Nanotube Ink  
Graphene/ Carbon Ink  
Others

### Global Conductive Inks Market by Application

Photovoltaic Cells  
Displays  
RFID (radio frequency identification)  
Printed Circuit Board  
Biosensors  
Others

### Global Conductive Inks Market by Region

North America  
The U.S.  
Rest of North America  
Europe

The U.K.  
Germany  
France  
Italy  
Rest of Europe  
Asia Pacific  
China  
Japan  
India  
Rest of Asia Pacific  
Middle East & Africa  
United Arab Emirates  
South Africa  
Rest of Middle-East & Africa  
South America  
Brazil  
Rest of South America

## Propanol Market - Global Industry Analysis, Size, Share, Growth, Trends, & Forecast 2017 - 2025

*The report "Propanol Market - Global Industry Analysis, Size, Share, Growth, Trends, & Forecast 2017 - 2025", published by Reportbuyer is a leading industry intelligence solution that provides all market research reports from top publishers. You can visit them at <http://www.reportbuyer.com>*

Propanol is a colorless alcohol typically available in two types of isomers: iso-propanol and n-propanol. Isopropanol was one of the first petrochemicals discovered in the '1960s. It is used in various applications such as cosmetics, personal care products, deicers, resins, paints, pharmaceuticals, inks, and adhesives, as also as a chemical intermediate to manufacture various chemicals such as methyl isobutyl ketone (MIBK), isopropyl esters, isopropyl amines, acetone, glycerol, and isopropyl acetates. N-propanol is used in the coatings industry as a medium-volatile alcohol for improving the drying characteristics of alkyd resins, electro deposition paints, and baking finishes. It is majorly used as a solvent in flexographic and other printing ink applications. Propanol is one of the key raw materials used in cosmetics industry. It has an ability to decrease

the thickness of liquids and reduce the tendency of finished products to generate foam when shaken.

Rising cosmetics industry is therefore expected to propel the propanol market during the forecast period, owing to its use in various cosmetics and personal care applications. Propanol are also primarily used to manufacture chemicals such as propyl halide, propyl amines, propyl acetate, and glycol ethers. Demand for propanol is projected to increase significantly in the next few years considering the extensive growth of the pharmaceutical industry in various regions. Asia Pacific dominates the propanol market in terms of production and demand. Countries such as China, India, Japan, and South Korea are expected to be the key consumers of propanol. Europe is the second largest consuming region.

Propanol has also been used as a major raw material to manufacture acetone.

However, rising production of acetone through cumene process is anticipated to remarkably affected the propanol market. This trend is anticipated to continue during the forecast period, and is therefore expected to unfavorably affect the market growth.

### Global Propanol Market: Scope of the Report

This report analyzes and forecasts the market for propanol at the global and regional level. The market has been forecast based on volume (Kilo Tons) and revenue (US\$ Mn) from 2017 to 2025, considering 2016 as the base year. The study includes drivers

**Continued on Pg 12**

**Continued from Pg 10**  
and restraints of the global propanol market. It also covers impact of these drivers and restraints on demand for propanol during the forecast period. The report also highlights opportunities in the propanol market at the global and regional level.

The report includes detailed value chain analysis, which provides a comprehensive view of the global propanol market. Porter's Five Forces model for the propanol market has also been included to help understand the competitive landscape in the market. The study encompasses market attractiveness analysis, wherein end-users are benchmarked based on their market size, growth rate, and general attractiveness.

**Global Propanol Market: Segmentation**

The study provides a decisive view of the global propanol market by segmenting it in terms of product type (iso-propanol and n-propanol) and applications such solvent, chemical intermediate, cosmetics & pharmaceuticals, others (Cleansers, adhesives, agricultural chemicals, etc.). These segments have been analyzed based on present and future trends. Regional segmentation includes current and forecast demand for propanol in North America, Europe, Asia Pacific, Latin America, and Middle East & Africa.

The report provides the actual market size of propanol for 2016 and estimated market size for 2017 with forecast for the next eight years. The global market size of propanol has been provided in terms of volume and revenue. Market volume has been defined in kilo tons, while market revenue is in US\$ Mn. Market numbers have been estimated based on product type and key applications of propanol. Market size and forecast for numerous end-users have been provided in terms of global, regional,

and country level markets.

**Global Propanol Market: Research Methodology**

In order to compile the research report, we conducted in-depth interviews and discussions with a number of key industry participants and opinion leaders. Primary research represented the bulk of research efforts, supplemented by extensive secondary research. We reviewed key players' product literature, annual reports, press releases, and relevant documents for competitive analysis and market understanding. Secondary research includes a search of recent trade, technical writing, Internet sources, and statistical data from government websites, trade associations, and agencies. This has proven to be the most reliable, effective, and successful approach for obtaining precise market data, capturing industry participants' insights, and recognizing business opportunities.

Secondary research sources that are typically referred to include, but are not limited to company websites, annual reports, financial reports, broker reports, investor presentations, SEC filings, CSA Global, European Paints Association, World Petrochemical Organization, Indian Petrochemical Institute, FAO, internal and external proprietary databases, and relevant patent and regulatory databases such as ICIS, Hoover's, oneSOURCE, national government documents, statistical databases, trade journals, market reports, news articles, press releases, and webcasts specific to companies operating in the market.

We conduct primary interviews on an ongoing basis with industry participants and commentators to validate data and analysis. These help validate and strengthen secondary research findings. These also help develop the analysis team's expertise and market understanding.

The report comprises profiles of major companies operating in the global propanol market. The global propanol market is fragmented, however few global producers dominate the market. Key players include BASF SE, The Dow Chemical Company, Eastman Chemical Company, Mitsui Chemicals, Inc, ExxonMobil Corporation, Tokuyama Corporation, LyondellBasell Industries N.V., and Oxea GmbH amongst other manufacturers. Market players have been profiled in terms of attributes such as company overview, financial overview, business strategies, and recent developments.

The global propanol market has been segmented as follows:

**Propanol Market: Product Type Analysis**

Isopropanol  
N-propanol

**Propanol Market: Application Analysis**

Solvent  
Chemical Intermediate  
Cosmetics & Pharmaceuticals  
Others (Cleansers, adhesives, agricultural chemicals, etc)

**Propanol Market: Regional Analysis**

North America	ASEAN
U.S.	Japan
Canada	Rest Of Asia Pacific
Europe	Latin America
U.K.	Brazil
Italy	Mexico
Spain	Rest of South America
France	Middle East & Africa (MEA)
Germany	GCC
Rest Of Europe	South Africa
Asia Pacific	
China	
India	