

# **Global Chemical detection technology Market Size study, by Technology (Raman Spectroscopy, Infrared Spectroscopy based, Others), by Portability (Portable, Non-Portability) by Deployment Type (Government Authorities, Commercial Market) and Regional Forecasts 2018-2025**

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## **Abstracts**

Chemical detector is an instrument or a test that includes qualitative and quantitative procedure designed to verify the existence of a chemical compound. Chemical detection serves variety of purpose such as to verify the requirements of a specification or regulation, Determine the interactions of a sample with the environment and other substances, to determine and verify the composition of a sample. It also provides standard data to quality control and Quality assurance department. Market is expected to grow with a CAGR of 18% globally. Basically, chemical detection technology is used in for detection of chemical agents, toxic industrial materials, toxic industrial chemicals. Thus, majorly this technology helps in for monitoring of major chemical plants and industries. Major example of this can be Bhopal gas tragedy which have activated alarm in foremost chemical industries to benefit in for using the finest quality and dependable chemical detection technology. Most of the commercially available such as CA and TIC technology detects and utilize technologies which are majorly adapted from classical analytical chemistry technologies. During the forecasted period this technology is increased by 4.6% globally which is in the decreasing mode but this technology is said to increase in the coming years as it is used by every big and foremost company. Due to heavy loss of chemicals in Bhopal gas tragedy, chemical industries are using these technologies and playing safe in global market.

Air population is thus professed as modern day to day working, as by increase in

urbanization and industrialization in major cities and governments don't have proper way to dispose these gases which in fact increases air pollution which is said to be more dangerous as it directly affects human lungs and end up with various diseases. Air pollution occurs with indoor (household), and for outdoor there is (environment) problems. According to the report from WHO in May 2016 around 80% population who are living in specific urban areas those are monitoring problems regarding air pollution are unprotected with specific air quality which have thus exceeded the limits of WHO which is dangerous for humans. As all the regions of the world are affected by this problem, majorly those cities are affected where there is low income of population or those who stay near to villages. These are the major areas those are affected with air pollution. According to urban air quality database almost 98% of major cities those come under low and middle-income countries and those are with more than 1,00,000 residents does not come under the user guidelines of WHO air quality. Apart from this country with high income have thus decreased their percentage by 56%. Thus, air pollution is the major cause for lung and other major diseases which may cause to death. Globally highly populated cities in all major countries are now using air pollution control methods so as to control city population and can work on methods to cure it so as to get better results globally.

The regional analysis of Global Chemical detection technology Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the leading/significant region across the world in terms of market share. Whereas, owing to the countries such as China, Japan, and India, Asia Pacific region is anticipated to exhibit higher growth rate / CAGR over the forecast period 2018-2025.

The Companies involved in the market are as follows:

Agilent Technologies

Bruker Corporation

Carl Zeiss AG

Chemimage Corporation

Inficon

Hilton Instruments

Implant Sciences Technologies

PerkinElmer

Roche Diagnostics

Shimadzu Corporation

Threat Detection Technologies

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Raman Spectroscopy

Infrared Spectroscopy based

Others

By Portability:

Portable

Non-Portable

By End-User:

Government Authorities

Commercial Market

By Regions:

North America

U.S.

Canada

Europe

UK

Germany

Asia Pacific

China

India

Japan

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2015, 2016

Base year – 2017

Forecast period – 2018 to 2025

Target Audience of the Global Chemical detection technology Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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