

Global Electron Capture Detectors (ECD) Market Growth 2023-2029

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Abstracts

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An electron capture detector (ECD) is a device for detecting atoms and molecules in a gas through the attachment of electrons via electron capture ionization.

The electron capture detector is used for detecting electron-absorbing components (high electronegativity) such as halogenated compounds in the output stream of a gas chromatograph. The ECD uses a radioactive beta particle (electron) emitter in conjunction with a so-called makeup gas flowing through the detector chamber. The electron emitter typically consists of a metal foil holding 10 millicuries (370 MBq) of the radionuclide ^{63}Ni . Usually, nitrogen is used as makeup gas, because it exhibits a low excitation energy, so it is easy to remove an electron from a nitrogen molecule. The electrons emitted from the electron emitter collide with the molecules of the makeup gas, resulting in many more free electrons. The electrons are accelerated towards a positively charged anode, generating a current. There is therefore always a background signal present in the chromatogram. As the sample is carried into the detector by the carrier gas, electron-absorbing analyte molecules capture electrons and thereby reduce the current between the collector anode and a cathode. The analyte concentration is thus proportional to the degree of electron capture. ECD detectors are particularly sensitive to halogens, organometallic compounds, nitriles, or nitro compounds.

LPI (LP Information)' newest research report, the "Electron Capture Detectors (ECD) Industry Forecast" looks at past sales and reviews total world Electron Capture Detectors (ECD) sales in 2022, providing a comprehensive analysis by region and market sector of projected Electron Capture Detectors (ECD) sales for 2023 through 2029. With Electron Capture Detectors (ECD) sales broken down by region, market

sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electron Capture Detectors (ECD) industry.

This Insight Report provides a comprehensive analysis of the global Electron Capture Detectors (ECD) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Electron Capture Detectors (ECD) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electron Capture Detectors (ECD) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electron Capture Detectors (ECD) and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Electron Capture Detectors (ECD).

The global Electron Capture Detectors (ECD) market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Electron Capture Detectors (ECD) is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Electron Capture Detectors (ECD) is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Electron Capture Detectors (ECD) is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Electron Capture Detectors (ECD) players cover Agilent, SRI Instruments, Shimadzu, Thermo Fisher Scientific, PerkinElmer and Dani Instruments, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Electron Capture Detectors (ECD) market by product type, application,

key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Radioactive Electron Capture Detector

Non-radioactive Electron Capture Detector

Segmentation by application

Environmental

Pharmaceutical

Forensic

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Agilent

SRI Instruments

Shimadzu

Thermo Fisher Scientific

PerkinElmer

Dani Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electron Capture Detectors (ECD) market?

What factors are driving Electron Capture Detectors (ECD) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Electron Capture Detectors (ECD) market opportunities vary by end market size?

How does Electron Capture Detectors (ECD) break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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