

Global Calibration Gas Mixture Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G5BF011C24C6EN.html>

Date: June 2025

Pages: 101

Price: US\$ 3,480.00 (Single User License)

ID: G5BF011C24C6EN

Abstracts

According to our (Global Info Research) latest study, the global Calibration Gas Mixture market size was valued at US\$ 747 million in 2024 and is forecast to a readjusted size of USD 1059 million by 2031 with a CAGR of 5.2% during review period.

A calibration gas is a reference gas or gas mixture used as comparative standard in the calibration of analytical instruments, like gas analysers or gas detectors. Therefore, a calibration gas has to be of a precisely defined nature or composition, like zero gas or span gas, for example 500 ppm carbon monoxide in nitrogen.

Drivers of the Calibration Gas Mixture Market:

Stringent Environmental and Safety Regulations: Increasingly strict government regulations for emissions monitoring, industrial safety, and air quality control are driving the demand for calibration gas mixtures. Industries such as oil & gas, chemicals, and manufacturing must comply with environmental standards, necessitating accurate calibration of gas analyzers and detectors.

Growing Industrialization and Urbanization: The expansion of industrial sectors like petrochemicals, automotive, and power generation, particularly in emerging economies, is leading to a higher demand for calibration gas mixtures to ensure the proper functioning of gas detection systems, which are essential for operational safety.

Increasing Focus on Workplace Safety: Rising awareness and regulations around occupational health and safety, especially in industries that handle hazardous gases, are boosting the need for gas detection systems that require periodic calibration using

gas mixtures.

Technological Advancements in Gas Detectors: The development of more advanced and sensitive gas detection and measurement instruments, such as multi-gas analyzers and portable gas detectors, has increased the demand for high-quality calibration gas mixtures to ensure precise readings.

Expansion of Environmental Monitoring Activities: Growing environmental concerns related to air pollution, greenhouse gas emissions, and hazardous gas leakage have led to increased environmental monitoring activities, further driving the need for accurate calibration gas mixtures in various sectors.

Challenges of the Calibration Gas Mixture Market:

High Costs of Specialty Gas Mixtures: The production of high-purity and customized calibration gas mixtures can be costly, especially for complex gas blends. This can be a barrier for smaller companies or organizations with limited budgets, reducing their ability to adopt such solutions.

Logistics and Transportation Issues: Calibration gas mixtures often involve hazardous or pressurized gases, making transportation and storage challenging. Stringent regulations around the handling and shipping of these gases can add logistical complexities and increase operational costs.

Limited Shelf Life: Many calibration gas mixtures have a limited shelf life, meaning they degrade over time and must be replaced periodically. This creates additional costs and can be a challenge for users in remote areas where frequent replacements are difficult to arrange.

Availability of Alternatives: Some industries may opt for alternative calibration methods, such as electronic calibration or self-calibrating instruments, which reduce the need for external gas mixtures. This competition from emerging technologies may impact the growth of the calibration gas mixture market.

Environmental Concerns: The production and use of certain calibration gas mixtures can contribute to environmental pollution, particularly if gases like carbon dioxide or methane are involved. Growing pressure for sustainable practices may push companies to find greener alternatives or reduce their reliance on calibration gases.

Americas is the largest Calibration Gas Mixture market with about 38% market share. APAC is follower, accounting for about 26% market share. The key players are Air Liquide, Linde Group, Praxair, Air Products and Chemicals, Taiyo Nippon Sanso, Messer Group, Iwatani Corporation, MATHESON etc. Top 3 companies occupied about 57% market share.

This report is a detailed and comprehensive analysis for global Calibration Gas Mixture market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Calibration Gas Mixture market size and forecasts, in consumption value (\$ Million), sales quantity (M L), and average selling prices (USD/L), 2020-2031

Global Calibration Gas Mixture market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M L), and average selling prices (USD/L), 2020-2031

Global Calibration Gas Mixture market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M L), and average selling prices (USD/L), 2020-2031

Global Calibration Gas Mixture market shares of main players, shipments in revenue (\$ Million), sales quantity (M L), and ASP (USD/L), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Calibration Gas Mixture

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Calibration Gas Mixture market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Liquide, Linde Group, Praxair, Air Products and Chemicals, Taiyo Nippon Sanso, Messer Group, Iwatani Corporation, MATHESON, Gasco, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Calibration Gas Mixture market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

UHP

Special Application Gas Mixtures

High End Gas Mixtures

EPA Protocol

Others

Market segment by Application

Industrial Use

Science and Research

Other

Major players covered

Air Liquide

Linde Group

Praxair

Air Products and Chemicals

Taiyo Nippon Sanso

Messer Group

Iwatani Corporation

MATHESON

Gasco

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Calibration Gas Mixture product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Calibration Gas Mixture, with price, sales quantity, revenue, and global market share of Calibration Gas Mixture from 2020 to 2025.

Chapter 3, the Calibration Gas Mixture competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Calibration Gas Mixture breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Calibration Gas Mixture market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Calibration Gas Mixture.

Chapter 14 and 15, to describe Calibration Gas Mixture sales channel, distributors, customers, research findings and conclusion.

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