

# **Acetylene Gas Market Report by Production Method (Calcium Carbide, Hydrocarbon Pyrolysis), Application (Chemical Synthesis, Welding and Cutting, Metal Fabrication, and Others), and Region 2024-2032**

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## **Abstracts**

The global acetylene gas market size reached US\$ 6.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 7.5 Billion by 2032, exhibiting a growth rate (CAGR) of 2.4% during 2024-2032.

Acetylene is a colourless combustible gas that is produced through the combination of calcium carbonate and water. It can also be generated using hydrocarbons, such as coal, crude oil, and naphtha, and becomes highly explosive when it is liquified, compressed, heated or mixed with air. This gas is most commonly used as an intermediate for the manufacturing of chemicals and cutting and welding functions in metalworking applications. It is also used for the manufacturing of commercial dry-cell batteries and acetylic alcohols and finds extensive applications across various industries, including chemical, automotive, transportation, aerospace and pharmaceutical.

The market is primarily being driven by the significant growth in the chemical industry, along with rapid industrialization across the globe. Owing to its high flame-temperature properties, acetylene gas is extensively used for various metalworking applications, including oxyacetylene cutting, heat treating, soldering, brazing and welding. In comparison to the traditionally used oxygen-based fuels, the combination of oxyacetylene provides faster piercing and preheating. This offers improved cutting quality, speed and cut initiation time, thereby leading to enhanced efficiency and widespread utilization of the gas across industries. Furthermore, acetylene gas is also

utilized for the synthesis of various chemicals, such as acetic anhydride, acetic acid and acetaldehyde. Apart from this, it finds applications in the glass and materials processing industries for carbon coating as it aids in creating lubrication between the material surfaces. Other factors, including extensive research and development (R&D) activities focused on generating the gas from biogas and other bio-based fuels, are also providing a boost to the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global acetylene gas market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on production method and application.

#### Breakup by Production Method:

Calcium Carbide

Hydrocarbon Pyrolysis

#### Breakup by Application:

Chemical Synthesis

Welding and Cutting

Metal Fabrication

Others

#### Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Airgas, Inc., BASF SE, China Petroleum and Chemical Corporation, Gulf Cyro, Hebei Xingyu Chemical Co. Ltd., Ilmo Products Company, Linde Plc, Praxair, Inc., Shandong Xinlong Group Co. Ltd., Suzhou Jinhong Gas Co. Ltd., Dow Chemical Company, Toho Acetylene Co. Ltd., etc.

#### Key Questions Answered in This Report

1. What was the size of the global acetylene gas market in 2023?
2. What is the expected growth rate of the global acetylene gas market during 2024-2032?
3. What are the key factors driving the global acetylene gas market?
4. What has been the impact of COVID-19 on the global acetylene gas market?
5. What is the breakup of the global acetylene gas market based on the production method?
6. What is the breakup of the global acetylene gas market based on the application?
7. What are the key regions in the global acetylene gas market?
8. Who are the key players/companies in the global acetylene gas market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL ACETYLENE GAS MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCTION METHOD**

- 6.1 Calcium Carbide
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Hydrocarbon Pyrolysis
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

### 7.1 Chemical Synthesis

#### 7.1.1 Market Trends

#### 7.1.2 Market Forecast

### 7.2 Welding and Cutting

#### 7.2.1 Market Trends

#### 7.2.2 Market Forecast

### 7.3 Metal Fabrication

#### 7.3.1 Market Trends

#### 7.3.2 Market Forecast

### 7.4 Others

#### 7.4.1 Market Trends

#### 7.4.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

### 8.1 North America

#### 8.1.1 United States

##### 8.1.1.1 Market Trends

##### 8.1.1.2 Market Forecast

#### 8.1.2 Canada

##### 8.1.2.1 Market Trends

##### 8.1.2.2 Market Forecast

### 8.2 Asia Pacific

#### 8.2.1 China

##### 8.2.1.1 Market Trends

##### 8.2.1.2 Market Forecast

#### 8.2.2 Japan

##### 8.2.2.1 Market Trends

##### 8.2.2.2 Market Forecast

#### 8.2.3 India

##### 8.2.3.1 Market Trends

##### 8.2.3.2 Market Forecast

#### 8.2.4 South Korea

##### 8.2.4.1 Market Trends

##### 8.2.4.2 Market Forecast

#### 8.2.5 Australia

##### 8.2.5.1 Market Trends

- 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
  - 8.2.6.1 Market Trends
  - 8.2.6.2 Market Forecast
- 8.2.7 Others
  - 8.2.7.1 Market Trends
  - 8.2.7.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Germany
    - 8.3.1.1 Market Trends
    - 8.3.1.2 Market Forecast
  - 8.3.2 France
    - 8.3.2.1 Market Trends
    - 8.3.2.2 Market Forecast
  - 8.3.3 United Kingdom
    - 8.3.3.1 Market Trends
    - 8.3.3.2 Market Forecast
  - 8.3.4 Italy
    - 8.3.4.1 Market Trends
    - 8.3.4.2 Market Forecast
  - 8.3.5 Spain
    - 8.3.5.1 Market Trends
    - 8.3.5.2 Market Forecast
  - 8.3.6 Russia
    - 8.3.6.1 Market Trends
    - 8.3.6.2 Market Forecast
  - 8.3.7 Others
    - 8.3.7.1 Market Trends
    - 8.3.7.2 Market Forecast
- 8.4 Latin America
  - 8.4.1 Brazil
    - 8.4.1.1 Market Trends
    - 8.4.1.2 Market Forecast
  - 8.4.2 Mexico
    - 8.4.2.1 Market Trends
    - 8.4.2.2 Market Forecast
  - 8.4.3 Others
    - 8.4.3.1 Market Trends
    - 8.4.3.2 Market Forecast

## 8.5 Middle East and Africa

### 8.5.1 Market Trends

### 8.5.2 Market Breakup by Country

### 8.5.3 Market Forecast

## 9 SWOT ANALYSIS

### 9.1 Overview

### 9.2 Strengths

### 9.3 Weaknesses

### 9.4 Opportunities

### 9.5 Threats

## 10 VALUE CHAIN ANALYSIS

## 11 PORTERS FIVE FORCES ANALYSIS

### 11.1 Overview

### 11.2 Bargaining Power of Buyers

### 11.3 Bargaining Power of Suppliers

### 11.4 Degree of Competition

### 11.5 Threat of New Entrants

### 11.6 Threat of Substitutes

## 12 PRICE INDICATORS

## 13 COMPETITIVE LANDSCAPE

### 13.1 Market Structure

### 13.2 Key Players

### 13.3 Profiles of Key Players

#### 13.3.1 Airgas, Inc.

##### 13.3.1.1 Company Overview

##### 13.3.1.2 Product Portfolio

#### 13.3.2 BASF SE

##### 13.3.2.1 Company Overview

##### 13.3.2.2 Product Portfolio

##### 13.3.2.3 Financials

##### 13.3.2.4 SWOT Analysis

### 13.3.3 China Petroleum and Chemical Corporation

#### 13.3.3.1 Company Overview

#### 13.3.3.2 Product Portfolio

#### 13.3.3.3 Financials

#### 13.3.3.4 SWOT Analysis

### 13.3.4 Gulf Cyro

#### 13.3.4.1 Company Overview

#### 13.3.4.2 Product Portfolio

### 13.3.5 Hebei Xingyu Chemical Co. Ltd.

#### 13.3.5.1 Company Overview

#### 13.3.5.2 Product Portfolio

### 13.3.6 Ilmo Products Company

#### 13.3.6.1 Company Overview

#### 13.3.6.2 Product Portfolio

### 13.3.7 Linde Plc

#### 13.3.7.1 Company Overview

#### 13.3.7.2 Product Portfolio

#### 13.3.7.3 Financials

### 13.3.8 Praxair Inc.

#### 13.3.8.1 Company Overview

#### 13.3.8.2 Product Portfolio

### 13.3.9 Shandong Xinlong Group Co. Ltd.

#### 13.3.9.1 Company Overview

#### 13.3.9.2 Product Portfolio

### 13.3.10 Suzhou Jinhong Gas Co. Ltd.

#### 13.3.10.1 Company Overview

#### 13.3.10.2 Product Portfolio

### 13.3.11 Dow Chemical Company

#### 13.3.11.1 Company Overview

#### 13.3.11.2 Product Portfolio

### 13.3.12 Toho Acetylene Co. Ltd.

#### 13.3.12.1 Company Overview

#### 13.3.12.2 Product Portfolio

#### 13.3.12.3 Financials



## List Of Tables

### LIST OF TABLES

Table 1: Global: Acetylene Gas Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Acetylene Gas Market Forecast: Breakup by Production Method (in Million US\$), 2024-2032

Table 3: Global: Acetylene Gas Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Acetylene Gas Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Acetylene Gas Market: Competitive Structure

Table 6: Global: Acetylene Gas Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Acetylene Gas Market: Major Drivers and Challenges

Figure 2: Global: Acetylene Gas Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Acetylene Gas Market: Breakup by Production Method (in %), 2023

Figure 4: Global: Acetylene Gas Market: Breakup by Application (in %), 2023

Figure 5: Global: Acetylene Gas Market: Breakup by Region (in %), 2023

Figure 6: Global: Acetylene Gas Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 7: Global: Acetylene Gas (Calcium Carbide) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 8: Global: Acetylene Gas (Calcium Carbide) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 9: Global: Acetylene Gas (Hydrocarbon Pyrolysis) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Acetylene Gas (Hydrocarbon Pyrolysis) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Acetylene Gas (Chemical Synthesis) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Acetylene Gas (Chemical Synthesis) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Acetylene Gas (Welding and Cutting) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Acetylene Gas (Welding and Cutting) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Acetylene Gas (Metal Fabrication) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Acetylene Gas (Metal Fabrication) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Acetylene Gas (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Acetylene Gas (Others) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: North America: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: North America: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: United States: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: United States: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Canada: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Canada: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Asia Pacific: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Asia Pacific: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: China: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: China: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Japan: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Japan: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: India: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: India: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: South Korea: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: South Korea: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Australia: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Australia: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Indonesia: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Indonesia: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Others: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Others: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Europe: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Europe: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Germany: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Germany: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: France: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: France: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: United Kingdom: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: United Kingdom: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Italy: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Italy: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Spain: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Spain: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Russia: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Russia: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Others: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Others: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Latin America: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Latin America: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Brazil: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Brazil: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Mexico: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Mexico: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Others: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Others: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Middle East and Africa: Acetylene Gas Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Middle East and Africa: Acetylene Gas Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Global: Acetylene Gas Industry: SWOT Analysis

Figure 68: Global: Acetylene Gas Industry: Value Chain Analysis

Figure 69: Global: Acetylene Gas Industry: Porter's Five Forces Analysis

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