

Global R-601a Market Growth 2026-2032

<https://marketpublishers.com/r/G9972F9CF5BFEN.html>

Date: May 2026

Pages: 103

Price: US\$ 3,660.00 (Single User License)

ID: G9972F9CF5BFEN

Abstracts

The global R-601a market size is predicted to grow from US\$ 5.73 million in 2025 to US\$ 7.94 million in 2032; it is expected to grow at a CAGR of 4.5% from 2026 to 2032.

R-601a, or isopentane is a natural, colorless, and highly flammable hydrocarbon refrigerant with a mild odor. It is used as an eco-friendly alternative to traditional refrigerants, offering zero Ozone Depletion Potential (ODP) and very low Global Warming Potential (GWP), often utilized in industrial refrigeration, aerosol propellants, and as a foaming agent for polystyrene. In 2025, global R-601a production reached approximately 4600 MT.

R-601a (isopentane) is driven mainly by the move toward low-GWP hydrocarbon solutions in foam and refrigeration-related applications, rather than by large-scale use as a stand-alone refrigerant. UNEP technical assessments note that hydrocarbons such as n-pentane and iso-pentane have become typical blowing agents in polyurethane boardstock and appliance insulation, while domestic refrigeration remains an important end market for foam blowing agents. That means demand for R-601a rises when refrigerator and freezer production expands, and when manufacturers replace higher-GWP foam-blowing chemicals with hydrocarbons to align with Montreal Protocol transition pressures and broader climate rules.

A second key driver is cost-performance practicality in appliance insulation systems. UNEP reports show the market has favored cyclopentane/isopentane and related hydrocarbon systems because they are cost-effective and commercially established, especially in rigid foam applications tied to appliances and insulation. In practice, this supports R-601a demand where manufacturers want a proven, relatively low-cost hydrocarbon input that helps deliver thermal insulation performance and lower environmental impact. The main restraint is flammability, which increases plant safety and handling requirements, but adoption has still grown in applications where

manufacturers can manage those risks through established production controls.

LP Information, Inc. (LPI) ' newest research report, the ?R-601a Industry Forecast? looks at past sales and reviews total world R-601a sales in 2025, providing a comprehensive analysis by region and market sector of projected R-601a sales for 2026 through 2032. With R-601a sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world R-601a industry.

This Insight Report provides a comprehensive analysis of the global R-601a 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 R-601a portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global R-601a market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for R-601a 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 R-601a.

This report presents a comprehensive overview, market shares, and growth opportunities of R-601a market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Content ?99.5%

Content ?995%

Segmentation by Package:

Small Cans

Steel Cylinders

Segmentation by Channel:

Direct Selling

Distribution

Segmentation by Application:

Residential Refrigeration

Commercial Refrigeration

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 analysing the company's coverage, product portfolio, its market penetration.

ExxonMobil Product Solutions

Phillips 66

Haltermann Carless

Trecora

Junyuan Petroleum Group

Heze Sirloong Chemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global R-601a market?

What factors are driving R-601a market growth, globally and by region?

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

How do R-601a market opportunities vary by end market size?

How does R-601a break out by Type, by Application?

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