

Australia Bromine Market Forecast Trends - Market Size, Share, Growth Analysis Report (2025-2034)

Market Report | 2025-10-27 | 103 pages | EMR Inc.

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Report description:

Australia Bromine Market Report Summary Description Value Base YearAUD million2024Historical PeriodAUD million2018-2024Forecast PeriodAUD million2025-2034Market Size 2024AUD million88.62Market Size 2034AUD million144.35CAGR 2018-2024PercentageXX%CAGR 2025-2034Percentage5.00%CAGR 2025-2034 - Market by RegionAustralian Capital Territory5.8%CAGR 2025-2034 - Market by RegionWestern Australia5.3%CAGR 2025-2034 - Market by TypeOrganobromine5.7%CAGR 2025-2034 - Market by ApplicationFlame Retardants5.9%2024 Market Share by RegionVictoria23.1%Australia Bromine Market TrendsThe growth of the Australia bromine market is driven by substantial industrial demand across key sectors such as agriculture, pharmaceuticals, and automotive. Bromine's diverse uses in flame retardants, water treatment, and pharmaceuticals further fuel growth, strengthening the nation's healthcare and sanitation infrastructure. According to the ITA, Australia allocates approximately USD 6 billion annually to water and wastewater treatment, with capital purchases and maintenance accounting for 20% of this. Australia's population of 26 million is served by 300 urban utilities. Bromine's demand is increasing due to its role in flame retardants for construction and electronics, while its agricultural use supports farming through pesticides, impacting the Australia bromine market revenue. The market is also positioned for global exports, benefiting from R&D advancements that expand applications and stimulate industry growth. Australia Bromine Market GrowthSupportive government regulations and policies, especially in clean energy and pharmaceuticals, drive the growth of the Australia bromine market. Its role in sustainability efforts, like water treatment and renewable energy, enhances industrial versatility, while technological innovations improve production efficiency and cost-effectiveness. According to the Australian Commission on Safety and Quality in Health Care, 21,848,005 antimicrobial prescriptions were supplied under PBS in 2022. The Australia bromine market remains stable, with demand consistently supported by multiple sectors. This growth generates employment opportunities, enhances trade benefits due to Australia's strategic location, and contributes to economic development through increased industrial activity and global exports. Australia Bromine Market Insights- As of December 2023, 55% of Australia's land was designated for agricultural use, as per the Department of Agriculture, Fisheries, and Forestry. This substantial agricultural sector drives demand for bromine-based pesticides and soil fumigants, supporting the growth of the Australian bromine market.- Australia's construction industry contributes approximately USD 162 billion annually, about 10% of

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the nation's GDP, according to the industry reports. The demand for bromine-based flame retardants in construction materials, such as textiles and plastics, is boosted by this growing sector, driving market expansion.- According to ABS (February 2025), mineral exploration expenditure rose by 1.3%, and petroleum exploration expenditure increased by 20.6%. These growths fuel the need for bromine-based clear brine fluids in oil and gas extraction, boosting demand in Australia's bromine market.

Australia Bromine Market Drivers

Bromine is vital for water purification, making it an essential element in improving sanitation and water quality, which is driving growth opportunities in the Australia bromine market. As concerns over water scarcity and quality rise, bromine's effectiveness in water treatment is increasingly sought after, supporting environmental sustainability. The Australian Parliament's Action Plan aims to ban the export of waste plastics, paper, glass, and tyres from mid-2020, targeting an 80% recovery rate from all waste streams by 2030 and a significant boost in recycled content usage by both governments and industries. Opportunities in the Australia Bromine Market

Technological improvements

in bromine extraction and processing have boosted efficiency, lowered production costs, and improved sustainability, shaping the Australia bromine market dynamics and trends. These innovations expand supply, reduce environmental impact, and create new applications, supporting ongoing market growth. In September 2022, Gelion, a zinc bromide battery startup, commenced production in Australia, leveraging lead-acid battery techniques. Their technology provides low-cost energy storage for 6-12 hours, using recyclable materials for eco-friendly solutions.

Market Restraints

The Australia bromine market faces several challenges, including environmental concerns over its impact on health and ecosystems, particularly in applications like flame retardants, which could limit market expansion. Stringent regulations in industries such as agriculture and water treatment add compliance costs, slowing growth. Additionally, Australia's reliance on bromine imports exposes the market to supply disruptions and geopolitical risks. Furthermore, the growing adoption of alternative, more environmentally friendly or cost-effective chemicals in key applications presents a significant challenge to bromine demand.

"Australia Bromine Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Hydrogen Bromide
- Organobromine
- Bromide Salts
- Others

Market Breakup by Application

- Biocides
- Flame Retardants
- Bromine-Based Battery
- Clear Brine Fluids (CBF)
- Fine Chemicals
- Agriculture Products
- Others

Market Breakup by Region

- New South Wales
- Victoria
- Queensland
- Australian Capital Territory
- Western Australia
- Others

CAGR 2025-2034 - Market by Application

- Flame Retardants 5.9%
- Clear Brine Fluids (CBF) 5.5%
- Biocides 5.2%
- Bromine-Based Battery XX%
- Fine Chemicals XX%
- Agriculture Products XX%

Australia Bromine Market Share

Market Breakup by Type According to the Australia bromine market analysis, hydrogen bromide is a crucial element, widely used in producing flame retardants, fumigants, and pharmaceuticals. It enhances fire safety and chemical reactions, contributing to bromine demand. The Department of Climate Change, Energy, Environment, and Water Resources (DCCEEW) proposed regulating several brominated flame-retardant chemicals under the Industrial Chemicals Environmental Management Standards (IChEMS). Organobromine compounds are essential in Australian industries such as agriculture and water treatment. Used in pesticides, flame retardants, and as chemical intermediates, they support the growing demand for bromine, enhancing sustainability across sectors. Bromide salts, vital in water treatment, pharmaceuticals, and agriculture impacting the Australia bromine market revenue. They improve water purification, disinfectant properties, and agricultural productivity, driving consistent demand for bromine. This supports market growth and long-term sustainability. In July 2024, the Australian Renewable Energy Agency (ARENA) allocated USD 3 million to Barwon Water for the Green Oxygen for Wastewater Treatment project in Geelong.

Market Breakup by Application

According to the Australia bromine market report, bromine-based biocides play a vital role in controlling microbial growth in water systems and industrial applications, such as cooling towers and swimming pools. Their ability to disinfect and maintain hygiene in various sectors drives increasing demand, contributing to market growth. Bromine-based flame retardants are essential for improving fire safety across industries like construction and electronics in Australia. Used in plastics, textiles, and other materials to reduce flammability, their growing demand supports market expansion, driven by rising safety standards. According to the Australian Fashion Council report, the Australian fashion and textile sector could generate an additional USD 10.8 billion in economic growth over the next ten years, creating 86,000 new jobs and expanding into a USD 38 billion industry by 2032. Bromine-based flow batteries offer a sustainable and environmentally friendly energy storage solution in Australia. With high efficiency, these batteries provide a viable alternative to traditional storage technologies. As demand for renewable energy and storage solutions rises, the use of bromine-based batteries fosters market growth, promoting cleaner energy options. The Australia bromine market benefits from clear brine fluids (CBFs), which are used in oil and gas drilling to control well pressure and enhance extraction efficiency. As demand for energy and natural resources grows, the need for CBFs increases, expanding bromine consumption in industrial applications and supporting

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market development. Bromine is crucial in producing fine chemicals for pharmaceuticals, agrochemicals, and specialty products in Australia. These chemicals are key in developing drugs, pesticides, and advanced materials. As industries seek more precise solutions, the demand for bromine-based fine chemicals rises, fostering market expansion. In 2022, Australia's exports of agricultural, fish, and forestry products were valued at nearly AUD 71 billion (USD 49 billion). Agricultural exports from Australia to the United States, including forest and fish products, amounted to USD 4 billion. Bromine compounds are used in agricultural products like pesticides and soil fumigants to protect crops and improve yields, contributing to the Australia bromine market growth. Their effectiveness in pest control and soil treatment boosts demand in the agriculture sector. As the need for efficient agricultural solutions increases, bromine consumption rises. Australia Bromine Market Regional Insights New South Wales Bromine Market Overview New South Wales benefits from the rising demand for bromine in agriculture, pharmaceuticals, and water treatment. According to the NSW Government, the horticultural GVP was valued at USD 2,397 million, with exports rising by 3.2% to USD 297.4 million, fostering local industry growth and reinforcing a strong market presence in these sectors. Queensland Bromine Market Trends Queensland's bromine market prospers due to the growth of its agricultural sector and increasing water treatment requirements. Rising awareness of sustainability and clean energy further drives the demand for bromine-based products, supporting market growth. In 2023, Queensland's mining industry generated around AUD 40 billion, as reported by the Queensland Government. Western Australia Bromine Market Dynamics In Western Australia, bromine is crucial for mining, oil extraction, and agriculture. The demand for clear brine fluids and agricultural products fuels market growth, supporting regional industrial development. WA annually produces around 18 million tonnes of grains, with grain exports generating over USD 5.9 billion on average, making it the state's largest agricultural sector and the fifth largest export. Competitive Landscape The Australia bromine market key players are involved in the development, production, and marketing of specialty chemicals, with a strong emphasis on agricultural, food, and industrial applications. They provide innovative solutions across various sectors, including agriculture, water treatment, and pharmaceuticals. These companies specialise in advanced chemicals, polymers, and materials for industries such as automotive, agriculture, and electronics, and are recognised for their sustainable practices and commitment to delivering cutting-edge solutions in chemical production. Key Industry Players Israel Chemicals Limited (ICL): Israel Chemicals Limited is headquartered in Tel Aviv, Israel and was established in 1968. The company is a global leader in the development, production, and marketing of specialty chemicals, with a strong focus on agricultural, food, and industrial applications, providing innovative solutions for industries ranging from agriculture to water treatment and more. Lanxess AG: Lanxess AG was founded in 2004 and is headquartered in Cologne, Germany. This global chemical company specialises in the development and production of advanced chemicals, polymers, and materials for various industries, including automotive, agriculture, and electronics. Lanxess focuses on sustainability and high-performance products in diverse sectors worldwide. Intech Organics Limited : Intech Organics Limited, established in 2006 and based in India, is a prominent player in the manufacture and supply of speciality chemicals, including bromine-based compounds. The company serves multiple industries, including agriculture, pharmaceuticals, and water treatment, known for its innovative solutions and commitment to sustainability in chemical production. Recent Developments November 2023 Australia proposed adding four bromine-based flame retardant decaBDE, octaBDE, pentaBDE, and HBCDD to Schedule 6 and Schedule 7 of the Industrial Chemicals Environmental Management Standard (IChEMS). The draft decision, open for public comment from September 25 to October 25, 2023, aimed for stricter management by July 2024 and July 2025. May 2023 Redflow commissioned a 30-kWh zinc-bromine flow battery for the Brisbane City Council's Willawong Animal Rehoming Centre in May 2023. The project aimed to enhance energy resilience, particularly during grid outages affecting vaccine storage. The system, integrated with Deye hybrid inverters, was part of the city's 'Better Brisbane Proposals' initiative.

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