

Grignard Reagents - Company Evaluation Report, 2025

Market Report | 2025-07-01 | 123 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$2650.00
- Corporate License \$4250.00

Report description:

The Grignard Reagents Market Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Grignard Reagents Market. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 15 Grignard Reagents Market Companies were categorized and recognized as quadrant leaders.

Grignard reagents are a group of highly reactive organometallic compounds characterized by the general formula RMgX , where R is an organic group (such as alkyl, aryl, or vinyl) and X is a halogen, typically bromine, chlorine, or iodine. These reagents are synthesized by reacting organic halides with magnesium metal in anhydrous ether solvents and are extensively used in organic synthesis, especially for forming carbon-carbon bonds. The Grignard reagents market is segmented based on product type into alkyl, vinyl, aryl, and other variants. Their primary applications include the synthesis of APIs & drugs, agrochemicals, polymer formation & modification, and other specialized chemical processes. The main end-use sectors for Grignard reagents are pharmaceuticals & biotechnology, followed by agriculture, chemicals, flavors & fragrances, research, and other industries.

Grignard reagents are essential organometallic compounds with the general structure RMgX , where R refers to an organic moiety (alkyl or aryl) and X is a halogen (commonly Cl, Br, or I). First developed by Victor Grignard in 1900, they are formed by reacting to an organohalide with magnesium metal in an anhydrous ether solvent, such as diethyl ether or tetrahydrofuran (THF). These reagents are known for their high reactivity and function as strong nucleophiles, making them crucial intermediates in organic chemistry for constructing carbon-carbon bonds, particularly in synthesizing alcohols, carboxylic acids, and other intricate molecules. Due to their high sensitivity to air and moisture, Grignard reagents are usually handled under inert conditions and stored in solutions to preserve stability. They are widely used in the production of pharmaceuticals, agrochemicals, specialty chemicals, and in various material science applications.

The 360 Quadrant maps the Grignard Reagents Market companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Grignard Reagents Market quadrant. The top criteria for product footprint evaluation included By PRODUCT TYPE (Alkyl Grignard Reagent, Vinyl Grignard Reagent, Aryl Grignard Reagent, Other Product Types), By APPLICATION (Active Pharmaceutical Ingredients (Apis) & Drugs, Agrochemicals, Polymer Synthesis & Functionalization, Other Applications), and By END-USE INDUSTRY (Pharmaceutical & BioTechnology, Agriculture, Chemical, Flavors & Fragrances, Research, Other End-Use Industries).

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Key Players

Key players in the Grignard Reagents Market include major global corporations and specialized innovators such as Merck KGaA (Sigma Aldrich), Albemarle Corporation, WeylChem International GmbH, Hokko Chemical Industry Co., Ltd., Chemium Srl, Far Chemical, Pmc Group, Inc, Boulder Scientific Company, Neogen Chemicals Ltd., Tokyo Chemical Industry (India), Pvt. Ltd. (TCI India), Optima Chem, Shaoxing Shangyu Hualun, Chemical Co., Ltd., Nanjing Freehoo Chemical, Technology Co., Ltd., Chemische Fabrik Karl Bucher GmbH, Jiangsu Changjili New Energy, and Technology Co., Ltd.. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top 3 Companies

Merck KGaA

Merck KGaA stands prominently in the global Grignard reagent market, underpinned by its robust Life Science segment and a comprehensive range of high-purity reagents. The company is a leader in providing alkyl and aryl magnesium halides, essential for critical applications in organic synthesis, including carbon-carbon and carbon-heteroatom bond formation. Merck's extensive global reach, across 60 countries, ensures strong supply chain reliability and technical credibility. By strategically using advanced chemical innovation, Merck effectively retains a significant market share and remains a top choice for industries demanding precision and consistent quality.

Albemarle Corporation

Albemarle Corporation is well positioned among the leading competitors in the Grignard market due to its capabilities within the Energy Storage segment. The company specializes in producing high-value chemical compounds critical for fine chemical and pharmaceutical manufacturing. With a global presence in about 70 countries, Albemarle provides steady supply chains and localized expertise, fulfilling demands in high-value industries like pharmaceuticals. Its focus on innovation in Grignard synthesis aligns with the growing market demands, reinforcing its competitive position.

WeylChem International GmbH

WeylChem International GmbH is noted for its strong market positioning in custom manufacturing and Grignard reagent production. The company operates an extensive network throughout Germany, France, Italy, and the US, ensuring efficient production and distribution. WeylChem's expertise in synthesizing advanced intermediates and delivering high-quality Grignard reagents benefits industries requiring specialized solutions. Its commitment to maintaining top-grade production capabilities and fostering client-specific solutions further strengthens its market position.

Table of Contents:

1	INTRODUCTION	11
1.1	MARKET DEFINITION	11
1.2	STAKEHOLDERS	11
2	EXECUTIVE SUMMARY	12
3	MARKET OVERVIEW	16
3.1	INTRODUCTION	16
3.2	MARKET DYNAMICS	16
3.2.1	DRIVERS	17
3.2.1.1	Technological advancements in Grignard reagent industry	17
3.2.1.2	Rising demand in pharmaceutical industry	17
3.2.2	RESTRAINTS	18
3.2.2.1	High reactivity and moisture-sensitive nature of Grignard reagents	18
3.2.2.2	Environmental and safety regulations	18

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

3.2.3	OPPORTUNITIES	19
3.2.3.1	Emergence of green chemistry and sustainable practices	19
3.2.3.2	Rising demand in Asia Pacific	19
3.2.4	CHALLENGES	20
3.2.4.1	Lack of skilled workforce	20
3.2.4.2	Complexities involved in scaling up processes	20
4	INDUSTRY TRENDS	21
4.1	PORTER'S FIVE FORCES ANALYSIS	21
4.1.1	THREAT OF NEW ENTRANTS	22
4.1.2	THREAT OF SUBSTITUTES	22
4.1.3	BARGAINING POWER OF BUYERS	22
4.1.4	BARGAINING POWER OF SUPPLIERS	22
4.1.5	INTENSITY OF COMPETITIVE RIVALRY	23
4.2	IMPACT OF AI/GEN AI ON GRIGNARD REAGENTS MARKET	23
4.3	VALUE CHAIN ANALYSIS	23
4.4	ECOSYSTEM ANALYSIS	25
4.5	TECHNOLOGY ANALYSIS	26
4.5.1	KEY TECHNOLOGIES	26
4.5.1.1	Anhydrous reaction systems	26
4.5.1.2	Mechanochemical synthesis	27
4.5.2	COMPLEMENTARY TECHNOLOGIES	27
4.5.2.1	Green chemistry solvents	27
?		
4.5.3	ADJACENT TECHNOLOGIES	27
4.5.3.1	Flow chemistry systems	27
4.6	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	28
4.7	KEY CONFERENCES AND EVENTS, 2025-2026	28
4.8	PATENT ANALYSIS	29
4.8.1	APPROACH	29
4.8.2	DOCUMENT TYPES	29
4.8.3	PUBLICATION TRENDS	30
4.8.4	INSIGHTS	30
4.8.5	LEGAL STATUS OF PATENTS	30
4.8.6	JURISDICTION ANALYSIS	31
4.8.7	TOP COMPANIES/APPLICANTS	32
4.8.8	TOP 10 PATENT OWNERS (US) LAST 11 YEARS	32
5	COMPETITIVE LANDSCAPE	33
5.1	OVERVIEW	33
5.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	33
5.3	REVENUE ANALYSIS	34
5.4	MARKET SHARE ANALYSIS	35
5.5	COMPANY VALUATION AND FINANCIAL METRICS	37
5.6	BRAND/PRODUCT COMPARISON ANALYSIS	38
5.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024	40
5.7.1	STARS	40
5.7.2	EMERGING LEADERS	40
5.7.3	PERVASIVE PLAYERS	40

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.7.4	PARTICIPANTS	40
5.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2024	42
5.7.5.1	Company footprint	42
5.7.5.2	Region footprint	43
5.7.5.3	Product type footprint	44
5.7.5.4	Application footprint	45
5.7.5.5	End-use industry footprint	46
5.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024	47
5.8.1	PROGRESSIVE COMPANIES	47
5.8.2	RESPONSIVE COMPANIES	48
5.8.3	DYNAMIC COMPANIES	48
5.8.4	STARTING BLOCKS	48
5.8.5	COMPETITIVE BENCHMARKING: KEY STARTUPS/SMES, 2024	49
5.8.5.1	Detailed list of key startups/SMEs	49
5.8.5.2	Competitive benchmarking of key startups/SMEs	50
	?	
5.9	COMPETITIVE SCENARIO	51
5.9.1	PRODUCT LAUNCHES	51
5.9.2	DEALS	51
6	COMPANY PROFILES	52
6.1	KEY PLAYERS	52
6.1.1	MERCK KGAA (SIGMA ALDRICH)	52
6.1.1.1	Business overview	52
6.1.1.2	Products/Solutions/Services offered	53
6.1.1.3	MnM view	55
6.1.1.3.1	Key strengths/Right to win	55
6.1.1.3.2	Strategic choices	55
6.1.1.3.3	Weaknesses/Competitive threats	55
6.1.2	ALBEMARLE CORPORATION	56
6.1.2.1	Business overview	56
6.1.2.2	Products/Solutions/Services offered	57
6.1.2.3	MnM view	58
6.1.2.3.1	Key strengths/Right to win	58
6.1.2.3.2	Strategic choices	58
6.1.2.3.3	Weaknesses/Competitive threats	59
6.1.3	WEYLICHEM INTERNATIONAL GMBH	60
6.1.3.1	Business overview	60
6.1.3.2	Products/Solutions/Services offered	60
6.1.3.3	MnM view	61
6.1.3.3.1	Key strengths/Right to win	61
6.1.3.3.2	Strategic choices	61
6.1.3.3.3	Weaknesses/Competitive threats	61
6.1.4	HOKKO CHEMICAL INDUSTRY CO., LTD.	62
6.1.4.1	Business overview	62
6.1.4.2	Products/Solutions/Services offered	63
6.1.4.3	MnM view	64
6.1.4.3.1	Key strengths/Right to win	64

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

6.1.4.3.2	Strategic choices	64
6.1.4.3.3	Weaknesses/Competitive threats	65
6.1.5	CHEMIUM SRL	66
6.1.5.1	Business overview	66
6.1.5.2	Products/Solutions/Services offered	66
6.1.5.3	Recent developments	68
6.1.5.3.1	Deals	68
6.1.5.3.2	Product launches	68
6.1.5.4	MnM view	69
6.1.5.4.1	Key strengths/Right to win	69
6.1.5.4.2	Strategic choices	69
6.1.5.4.3	Weaknesses/Competitive threats	69
6.1.6	FAR CHEMICAL	71
6.1.6.1	Business overview	71
6.1.6.2	Products/Solutions/Services offered	71
6.1.6.3	MnM view	74
6.1.6.3.1	Key strengths/Right to win	74
6.1.6.3.2	Strategic choices	74
6.1.6.3.3	Weaknesses/Competitive threats	74
6.1.7	PMC GROUP, INC	75
6.1.7.1	Business overview	75
6.1.7.2	Products/Solutions/Services offered	75
6.1.7.3	MnM view	77
6.1.7.3.1	Key strengths/Right to win	77
6.1.7.3.2	Strategic choices	77
6.1.7.3.3	Weaknesses/Competitive threats	77
6.1.8	BOULDER SCIENTIFIC COMPANY	78
6.1.8.1	Business overview	78
6.1.8.2	Products/Solutions/Services offered	78
6.1.8.3	MnM view	79
6.1.8.3.1	Key strengths/Right to win	79
6.1.8.3.2	Strategic choices	80
6.1.8.3.3	Weaknesses/Competitive threats	80
6.1.9	NEOGEN CHEMICALS LTD.	81
6.1.9.1	Business overview	81
6.1.9.2	Products/Solutions/Services offered	82
6.1.9.3	MnM view	84
6.1.9.3.1	Key strengths/Right to win	84
6.1.9.3.2	Strategic choices	84
6.1.9.3.3	Weaknesses/Competitive threats	84
6.1.10	TOKYO CHEMICAL INDUSTRY (INDIA) PVT. LTD. (TCI INDIA)	85
6.1.10.1	Business overview	85
6.1.10.2	Products/Solutions/Services offered	85
6.1.10.3	MnM view	87
6.1.11	OPTIMA CHEM	88
6.1.11.1	Business overview	88
6.1.11.2	Products/Solutions/Services offered	88

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

6.1.11.3	MnM view	91
6.1.12	SHAOXING SHANGYU HUALUN CHEMICAL CO., LTD.	92
6.1.12.1	Business overview	92
6.1.12.2	Products/Solutions/Services offered	92
6.1.12.3	MnM view	94
6.1.13	NANJING FREEHOO CHEMICAL TECHNOLOGY CO., LTD.	95
6.1.13.1	Business overview	95
6.1.13.2	Products/Solutions/Services offered	95
6.1.13.3	MnM view	97
6.1.14	CHEMISCHE FABRIK KARL BUCHER GMBH	98
6.1.14.1	Business overview	98
6.1.14.2	Products/Solutions/Services offered	98
6.1.14.3	MnM view	100
6.1.15	JIANGSU CHANGJILI NEW ENERGY TECHNOLOGY CO., LTD.	101
6.1.15.1	Business overview	101
6.1.15.2	Products/Solutions/Services offered	101
6.1.15.3	MnM view	102
6.2	OTHER PLAYERS	103
6.2.1	NINGBO INNO PHARMCHEM CO., LTD.	103
6.2.2	AVANTOR, INC.	104
6.2.3	ALADDIN SCIENTIFIC CORP	105
6.2.4	J&K SCIENTIFIC LTD.	106
6.2.5	AMERICAN ELEMENTS	107
6.2.6	SHREE GANESH REMEDIES LTD.	108
6.2.7	AZEOCRYST ORGANICS PVT. LTD.	109
6.2.8	SYMAX LIFE SCIENCES	110
6.2.9	MEHK CHEMICALS PVT LTD.	111
6.2.10	JEYAM SCIENTIFIC CO.(P)LTD	112
6.2.11	BHARAT RASAYAN ADVANCED SPECIALTY CHEMICALS	113
6.2.12	SAINOR	114
6.2.13	NOVAPHENE	115
7	APPENDIX	116
7.1	RESEARCH METHODOLOGY	116
7.1.1	RESEARCH DATA	116
7.1.1.1	Secondary data	116
7.1.1.2	Primary data	117
7.1.2	RESEARCH ASSUMPTIONS	118
7.1.3	RISK ASSESSMENT	119
7.1.4	RESEARCH LIMITATIONS	119
7.2	COMPANY EVALUATION MATRIX: METHODOLOGY	120
7.3	AUTHOR DETAILS	123

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Grignard Reagents - Company Evaluation Report, 2025

Market Report | 2025-07-01 | 123 pages | MarketsandMarkets

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$2650.00
	Corporate License	\$4250.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-06"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com