

Lawesson's Reagent (CAS 19172-47-5) Market Research Report 2025

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Abstracts

Lawesson's Reagent (CAS 19172-47-5) Market Research Report 2025 presents comprehensive data on Lawesson's Reagent markets globally and regionally (Europe, Asia, North America etc.)

The report includes Lawesson's Reagent description, covers its application areas and related patterns. It overviews Lawesson's Reagent market, names Lawesson's Reagent producers and indicates its suppliers.

Besides, the report provides Lawesson's Reagent prices in regional markets.

In addition to the above the report determines Lawesson's Reagent consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

We can analyze the following elements for each chemical product in any country or region:

capacities and production

consumption volume and structure

market price trends

exports and imports

existing technologies

feedstock market condition

market news digest

market forecast.

Lawesson's Reagent (CAS 19172-47-5) Market Research Report 2025 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

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*Please note that Lawesson's Reagent (CAS 19172-47-5) Market Research Report 2025 is a half ready publication and contents are subject to change. It only requires updating with the help of new data that are constantly retrieved from Publisher's databases and other sources. This updating process takes 5-7 business days after order is placed. Thus, our clients always obtain a revised and updated version of each report. Please also note that we do not charge for such an updating procedure. BAC Reports has information for more than 25,000 different chemicals available but it is impossible to have all reports updated immediately. That is why it takes 5-7 days to update a report after an order is received.

About

Product Name:	Lawesson's Reagent
Synonyms:	2,4-Bis(p-methoxyphenyl)-1,3,2,4-dithiadiphosphetane 2,4-disulfide 2,4-bis(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane 2,4-disulphide
CAS#:	19172-47-5
Formula:	$C_{14}H_{14}O_2P_2S_4$
Molecular Weight:	404.47

Lawesson's reagent (full name 2,4-bis(4-methoxyphenyl)-1,3,2,4-dithiadiphosphetane 2,4-disulfide (or -disulphide) is a chemical compound with the formula $C_{14}H_{14}O_2P_2S_4$, used in organic synthesis as a thiation (also called thionation or sulfuration) agent. This light yellow to beige powder has a strong and unpleasant odour.

Lawesson's reagent was first produced in 1956 during a systematic study of the reactions of arenes with the comparable reagent P₄S₁₀. However it was Swedish chemist Sven-Olov Lawesson who popularized Lawesson's reagent within the chemical community.

Being commercially available, Lawesson's reagent can also be conveniently made in the laboratory by heating a mixture of anisole with phosphorus pentasulfide until the mixture is clear and no more hydrogen sulfide is formed, and then recrystallized from toluene or xylene.

The main application of Lawesson's reagent is the thionation of carbonyl compounds. The carbonyl group is converted into thiocarbonyl group, carbon-oxygen single bond is converted into a carbon-sulfur single bond, etc. In addition, Lawesson's reagent is used to thionate enones, esters, lactones, amides, lactams, and quinones.

The reaction of maltol with Lawesson's reagent was discovered to result in a selective oxygen replacement in two positions. Thiation reagent is also used to generate trophione in situ at room temperature and trapping it with dieneophiles.

Lawesson's reagent market is covered in the study Lawesson's Reagent (CAS 19172-47-5) Market Research Report 2025. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks Lawesson's reagent market situation, names manufacturers, suppliers as well as users. The report also provides current Lawesson's reagent prices in the market.

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