

# Patent Blue V (CAS 3536-49-0) Market Research Report 2025

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## Abstracts

Patent Blue V (CAS 3536-49-0) Market Research Report 2025 presents comprehensive data on Acid blue 3 (C.I. 42051) markets globally and regionally (Europe, Asia, North America etc.)

The report includes Acid blue 3 (C.I. 42051) description, covers its application areas and related patterns. It overviews Acid blue 3 (C.I. 42051) market, names Acid blue 3 (C.I. 42051) producers and indicates its suppliers.

Besides, the report provides Acid blue 3 (C.I. 42051) prices in regional markets.

In addition to the above the report determines Acid blue 3 (C.I. 42051) 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.

Patent Blue V (CAS 3536-49-0) 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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## About

Product Name:	Acid blue 3 (C.I. 42051)
Synonyms:	PATENT BLUE V
	C.I. 42051
	Food blue 5 (C.I. 42051)
CAS#:	3536-49-0
Formula:	$C_{54}H_{62}CaN_4O_{14}S_4$
Molecular Weight:	1159.43

Patent Blue V, otherwise known as Carmine Blue V, Merantine Blue V, etc., is a dark bluish synthetic dye that belongs to a class of triarylmethanes. The product is a dark blue or violet, odorless powder with the molecular formula  $C_{54}H_{62}CaN_4O_{14}S_4$  and molecular weight 1159.42. Patent blue V is soluble in water and has a melting point of 200 °C. The product is employed mainly as food coloring in ice cream, confectionery, decorations, carbonated beverages, sausages and other meat products. Patent blue V, as a food additive, has E number, which is E131. Moreover, it can be used as a colorant in medical diagnostic procedures. Patent blue V is injected into, for example, into breast tissue, to locate draining lymph nodes.

The product may cause allergic reactions characterized by nausea, nettle rash, hypotension. The contact with patent blue V may result in conjunctival oedema, hyperaemia, purulent discharge. Exposure to the skin may lead to severe health effects or skin irritation. Overdose of the product may cause the poisoning of the liver. Inhaled excessive concentrations of patent blue V can produce the respiratory tract irritation. Prolonged or repeated contact with the product can lead to pneumoconiosis, acute bronchospasm, running nose, blurred vision, skin rash, skin sensitivities. Erythema, breathing difficulties, swelling and itching of the hands are also amid the potential health effects caused by patent blue V.

Patent blue V market is covered in the study PATENT BLUE V (CAS 3536-49-0) Market Research Report 2025. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks patent blue V market situation, names manufacturers, suppliers as well as users. The

report also provides current patent blue V prices in the market.

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