The manufacture of contact and intraocular lenses relies on a wide variety of polymers in order to provide effective and comfortable lenses. New materials can help enhance oxygen and water permeability and help to provide increased comfort and safety to contact lens wearers. The polymerization, formulation, and quality of lenses are highly dependent on the monomers used in their production. Monomer selection impacts a variety of attributes such as modulus and permeability, surface smoothness, UV radiation absorption, as well as resistance to tearing and surface defects.

Sigma-Aldrich offers a selection of high-purity monomers and polymers for a wide range of ophthalmic applications. This innovation and dedication drives your development pipeline to meet clinical and technological expectations.

For more information, visit sigma-aldrich.com/ophthalmicapplications
Make Sure Your Monomer Supply is Fit for Use in Ophthalmic Production:

Stringent regulations in the manufacturing of contact lenses requires a high level of supply chain control, compliance and quality management of your critical raw materials. To help meet these requirements, we offer Technical Project Management tailored around your specific needs, including:

- Service level agreements based on customer risk assessment
- Supply chain control and transparency
- Safe and global supply, including dual source and inventory management
- Custom purity specifications

From Research to Commercial Scale Manufacturing – Your Monomer Expert:

If a monomer of interest is not on this product list, or you are looking for a special quality, take advantage of our extensive range of custom manufacturing capabilities.

From simple purification methods to complex multi-step organic synthesis, handling of air-sensitive compounds and high-purity organics, our facilities enable us to provide a complete range of services to customers – from process development to pilot plant and commercial scale. Your manufacturing program will be placed with experienced project teams that understand your scale, quality and compliance requirements. Novel synthesis techniques like the innovative Flow chemistry approach bring higher efficiency and competitive advantage on your side.

Examples of specialty monomers on manufacturing scale:

- 3-[Tris(trimethylsiloxy)silyl]propyl vinyl carbamate
- 3-(Trimethoxysilyl)propyl vinyl carbamate
- N-(3-Aminopropyl)methacrylamide hydrochloride
- (3-Acrylamidopropyl)trimethylammonium chloride
- 2-Hydroxyethyl acrylate
- N-Diphenylmethylacrylamide

Contact Our Technical Project Management for support. We are dedicated to customizing our services around your needs.

sigma-aldrich.com/ophthalmic-monomers-contact