



cGMP Organic Chemicals & Polymers

Polysciences synthesizes custom chemicals for medical device, pharmaceutical, and electronics applications. We apply our expertise in organic chemistry, engineering, and chemical characterization to develop and manufacture monomers, polymers, microspheres, and reagents to customer specifications. Whether supplying high-purity acrylic monomers for intraocular lenses or ethylene vinyl acetate copolymers for drug delivery, our scientists and engineers efficiently scale-up, validate, and manufacture commercial quantities to meet customer timelines.

Conveniently located north of Philadelphia, our Warrington, PA headquarters offers 200,000 square feet of manufacturing, R&D, analytical, and warehouse facilities for critical material supply. Operating under an ISO 13485 Quality Management System in an FDA registered facility, we couple a robust design control process with state-of-the-art manufacturing suites to deliver compliant materials in an audit ready environment. Our ISO 5-8 manufacturing suites offer an ideal home for your custom synthesis process. With additional manufacturing facilities in Indiana and New Jersey as well as sales offices in Germany and Taiwan, we provide a comprehensive global supply chain solution.

Whether your organization is addressing a current supply chain need or bringing a new product to market, Polysciences offers the technical expertise, compliance, and supply continuity to be your long-term, trusted partner. Contact us today to discuss your material needs and project timeline.

ANALYTICAL CAPABILITIES

NMR (300 MHz: ^1H , ^{13}C , ^{19}F , ^{31}P)
LCMS, HPLC, GCMS
FTIR
GPC (5)
DSC, TGA, TMA
Particle Size Analysis
Atomic Absorption
UV/Visible & Fluorescence
Viscosity

PURIFICATION TECHNIQUES

Distillation
Vacuum Drying
Lyophilization
Tangential Flow Filtration (TFF)
Recrystallization

TYPICAL REACTIONS

Alkylation
Amidation
Bromination
Chiral Synthesis
Condensation
Dehydrohalogenation
Diazotization
Esterification
Hydrogenation
Nitration
Oxidation
Organometallic
Phosgenation
Phosphonation
Polymerization
Quaternization
Reductive Amination
Sulfonation

CHEMISTRIES

Acrylates
Amines
Anhydrides
Imides
Glycolides

POLYMERIZATIONS

Addition
Condensation
Free Radical
Ring Opening
Pressure Polymers (ethylene copolymers)

Contact us at [Polysciences.com](https://www.polysciences.com)