

# CUSTOM SYNTHESIS OF FINE & RARE CHEMICALS

Serving medical device, biopharma, electronics and technology sectors

FDA Registered Facility // cGMP Capability // ISO 13485 Quality Management System





Polysciences has been a manufacturer of specialty chemicals for more than 60 years, beginning with stains and resins for biological electron microscopy, and continuing through our current industry leadership in the synthesis of fine chemicals for medical device, biopharma, electronics and technology sectors. Our work supports a range of applications, such as biocompatible polymers and polymer precursors for medical devices, bioresorbable polymers for drug elution systems, high-end specialty industrials, energetic additives, and rare and hard-to-find chemicals.

Through our Custom Synthesis services, customers are able to leverage Polysciences' scientific and technical expertise, state-of-the-art facilities and in-house analytical capabilities. Our chemical and engineering experience comprise an array of chemistries and polymerizations, and complementary purification, processing and characterization technologies. We offer a highly adaptable, iterative and collaborative CDMO experience—we will work with you to design, replicate or refine formulations, optimize analytical methods and develop scalable production processes.

Polysciences' primary campus in Warrington, PA is home to dedicated R&D suites and a GMP-capable production environment—designed to support projects from development through successful scale-up, validation and commercialization. We maintain FDA facility registration and ISO 13485:2016 Quality Management System certification, and are prepared to support your quality and regulatory requirements.

Polysciences has the expertise in organic chemistry, engineering and chemical characterization to meet your most critical chemistry needs. Whether you require a critical raw material or process development support, we can be your solutions partner of choice. Please contact us to begin the discussion.



For more information please call (800) 523-2575 or visit [polysciences.com](https://www.polysciences.com)



## ANALYTICAL CAPABILITIES

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NMR (300 MHz:  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{19}\text{F}$ ,  $^{31}\text{P}$ )

LCMS, HPLC, GCMS

FTIR

GPC (5)

DSC, TGA, TMA

Particle Size Analysis

Atomic Absorption

UV/Visible & Fluorescence

Viscosity

## PURIFICATION TECHNIQUES

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Distillation

Vacuum Drying

Lyophilization

Tangential Flow Filtration (TFF)

Recrystallization

## REACTION CAPABILITIES

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Alkylation

Amidation

Bromination

Chiral Synthesis

Condensation

Dehydrohalogenation

Diazotization

Esterification

Hydrogenation

Nitration

Oxidation

Organometallic

Phosgenation

Phosphonation

Polymerization

Quaternization

Reductive Amination

Sulfonation

## CHEMISTRIES

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Acrylates

Amines

Anhydrides

Imides

Glycolides

## POLYMERIZATIONS

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Addition

Condensation

Free Radical

Ring Opening

Pressure Polymers (ethylene copolymers)



**U.S. CORPORATE HEADQUARTERS**

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