



# Organic Synthesis

Products for Simple and Sophisticated Workflows



One-stop shop  
with access to  
**over 1.7 million**  
products in North America



# Organic Synthesis

Products for Simple and Sophisticated Workflows

Each step in the organic synthesis workflow demands products and tools of exacting quality and reliability. Look to the Fisher Scientific channel as a comprehensive, cost-effective, and dependable source to support your requirements every step of the way. Use our **chemical structure search tool** to find a match on your molecule of interest.



## Preparation

Stay safe with lab coats, gloves, and more. You can also find equipment and consumables for applications of practically any scale.

- Balances and Scales
- Heaters and Heating Mantles
- Thermometers and Temperature Measurement
- Laboratory Spatulas
- Wash Bottles
- Weighing Dishes and Papers
- Fume Hoods
- Biohazardous and Sharps Disposal Containers
- Liquid Nitrogen Storage Equipment
- Hand Protection
- Safety Goggles
- Lab Coats



## Synthesis

From building blocks, catalysts, and solvents to timers, syringes, tubing, and more, you can find products that suit your unique requirements.

- Organic Compounds
- Organometallic Compounds
- Solvents
- Tubing Connectors and Fittings
- Time Keeping
- TLC Plates
- Chromatography Syringes
- Stoppers
- Film and Foil Wrapping
- General Purpose Wipers
- Tubing
- Lab Desiccants and Drying Agents



## Purification

Choose from a range of products and equipment to achieve precise purifications and complete important chromatography procedures.

- Filters and Filtration
- Beakers and Lids
- Bottles, Jars, and Jugs
- Funnels
- Rotary Evaporators
- Freeze Dryers
- Pumps
- Chromatography Supplies
- Flash Chromatography Cartridges
- LC Columns
- Column Packing
- Filter Paper
- Insulated Containers



## Analysis

Enhance absorption, chromatography, distillation, extraction, filtration, and more with a flexible choice of instruments, equipment, and supplies.

- Crystallization Microplates
- Melting Point Instruments
- Heating and Drying Ovens
- Thin Layer Chromatography
- NMR Tubes

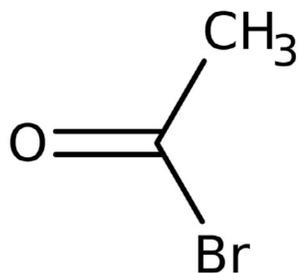
In Canada, visit [fishersci.ca/organicsynthesis](https://fishersci.ca/organicsynthesis) to shop these categories.



**thermo**scientific

Find compounds for each step of your organic synthesis workflow, including a wide variety of new Thermo Scientific™ chemicals, catalysts, and reagents.

Whether you're performing structural analysis and confirmation by NMR or using qualitative techniques, the Thermo Scientific chemicals portfolio can help you effectively complete your synthesis workflow.

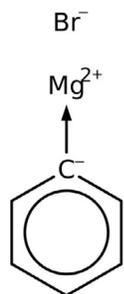


### Building Blocks

Explore more than 30,000 chemical building blocks to create a vast array of organic compounds with applications in medicinal chemistry, biochemistry, biotechnology, and more.

Cat. No.	Description	Quantity
AAL06686	1,6-Hexanedithiol, 97%	5 g, 25 g
AAB24193	1-Octylamine, 99%	100 g, 500 g
AAA13162	p-Benzoquinone, 98+%	100 g, 250 g, 1,000 g, 5,000 g
AC15797	Trimethyl Phosphate, 99%	50 mL, 500 mL, 2.5 L
AC14959	Tetraethylene Glycol, 99%	1 L, 2.5 L, 10 L
AC27010	Hydroxylamine Hydrochloride, 99+%	100 g, 250 g, 1 kg, 5 kg
AC41156	1,6-Hexanediamine, 60% in Water	250 g, 1 kg
AAA12485	Acetyl Bromide, 98%	25 g, 100 g, 500 g

Visit [fishersci.com/thermoscientificchemicals](http://fishersci.com/thermoscientificchemicals) or [fishersci.ca/thermoscientificchemicals](http://fishersci.ca/thermoscientificchemicals) to learn more.



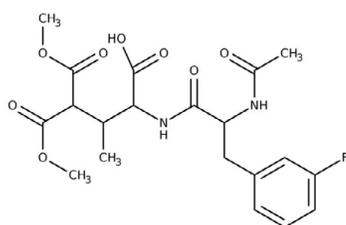
## Organic Reagents

Choose from our extensive selection of functional reagents, with air- and moisture-sensitive products in Thermo Scientific™ AcroSeal™ packaging for performance, convenience, and safety.

Cat. No.	Description	Quantity
AAL08269	Lithium Aluminum Di-n-Butylamide, 0.16 M in 1,2-Dimethoxyethane	100 mL, 500 mL
AA87326	Phenylmagnesium Bromide, 3 M in Ether	100 mL, 500 mL
AAA10221	Imidazole, 99%	100 g, 500 g, 2,500 g
AC39654	tert-Butyllithium, 1.9 M in Pentane	100 mL, 800 mL
AC11012	Chlorotrimethylsilane, 98%	25 mL, 100 mL, 250 mL, 1 L
AC11778	Epichlorohydrin, 99%	25 mL, 1 L, 2.5 L, 10 L
AA14261	Potassium Methoxide, 90+%	50 g, 250 g
AC12961	Oxalyl Chloride, 98%	25 g, 100 g, 1 kg

## Purification Chemicals

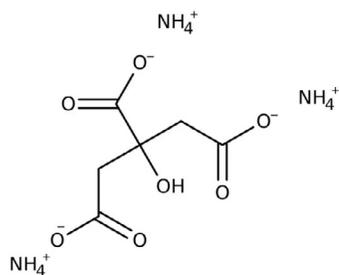
Explore a range of chemicals for extraction, isolation, and purification after synthesis.



Cat. No.	Description	Quantity
AC41929	Silica Gel, 75 to 300 Mesh, 250 Grade	250 g, 1 kg, 5 kg
AA33337	Magnesium Sulfate, Anhydrous, 99.5% min.	500 g, 2 kg, 10 kg
AC34967	Celite 545	500 g, 2.5 kg, 10 g
AA87611	Sodium Sulfate, Anhydrous, 99.99% (Metals Basis)	5 g, 25 g, 100 g
AA32256	Molecular Sieves, 4A with Indicator, -8+12 Beads	250 g, 1 kg, 5 kg

## Essential Chemicals

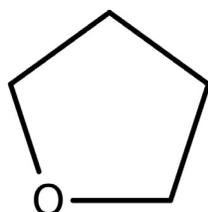
Find buffers, standards, and solutions for your daily work in the laboratory.



Cat. No.	Description	Quantity
AC42838	Ammonia, 7 N Solution in Methanol	800 mL
AC38836	Hydrogen Chloride, 4 N in 1,4-Dioxane	800 mL
AAA16973	Ammonium Citrate Tribasic, >97%	100 g, 500 g
AA30833	Tetramethylammonium Hydroxide, 25% in Methanol	10 g, 100 g, 500 g
AC19804	Potassium Carbonate, Anhydrous	1 kg, 5 kg, 25 kg
AA13455	Sodium Hydroxide (Low Chloride), ACS, 97.0% min.	100 g, 500 g, 2 kg, 10 kg, 2 x 12.5 kg

## Analytical Chemicals

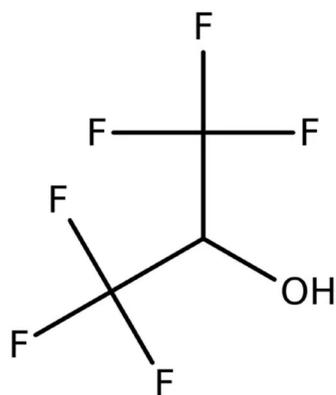
Choose high-purity solvents made for specific applications and analyses.



Cat. No.	Description	Quantity
AA22904	Tetrahydrofuran, UV, HPLC Grade, 99.7+% min., Unstabilized	250 mL, 1 L, 4 L, 4 x 1 L
AA22917	Dichloromethane, HPLC Grade, 99.7+%, Stabilized with Amylene	250 mL, 1 L, 4 L, 4 x 1 L
AC34843	N,N-Dimethylformamide, Spectrophotometric Grade, 99.7+%	100 mL, 500 mL, 1 L, 2.5 L
AA22919	Cyclohexane, HPLC Grade, 99% min.	1 L, 4 L, 4 x 1 L
AA22903	Toluene, HPLC Grade, 99.7% min.	1 L, 4 L, 4 x 1 L
AC16773	Chloroform, 99+%, for Spectroscopy, Stabilized with Amylene	500 mL, 1 L, 2.5 L, 25 L



With more than 60 years of synthesis experience, TCI specializes in organic reagents and products that are hard to find and difficult to synthesize.



## Organic Building Blocks

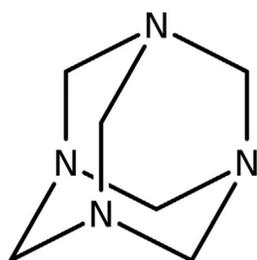
From aminamine to xanthurenic acid, TCI has what you need to keep your research moving forward.

Cat. No.	Description	Quantity
A002425ML	Butyl Acetate, 99.0+%	25 mL
A002625ML	tert-Butyl Acetate 99.0+%	25 mL
A0082100G	Acetyl Chloride 98.0+%	100 g
A064825G	2-Aminoethanethiol 95.0+%	25 g
A014225ML	Butyl Acrylate (Stabilized with MEHQ), 99.0+%	25 mL
A014325ML	Ethyl Acrylate (Stabilized with MEHQ), 99.0+%	25 mL
A014525ML	Methyl Acrylate (Stabilized with MEHQ), 99.0+%	25 mL
A016125G	Adipic Acid, 99.0+%	25 g
A026925G	4-Aminobenzoic Acid, 99.0+%	25 g
A048025ML	p-Anisaldehyde, 99.0+%	25 mL

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## Ligands for Research and Development

From general use to focused carbene ligands with no salt byproducts, find a variety of ligands for your lab.



Cat. No.	Description	Quantity
D013425G	1,4-Diazabicyclo[2.2.2]octane, 98.0+%	25 g
D044325ML	Dicyclopentadiene (Stabilized with BHT), 97.0+%	25 mL
E007725ML	Ethylenediamine Anhydrous, 98.0+%	25 mL
H009325G	Hexamethylenetetramine, 99.0+%	25 g
I000125G	Imidazole, 98.0+%	25 g
L006725ML	2,6-Lutidine, 98.0+%	25 mL
P005225ML	Acetylacetone, 99.0+%	25 mL
T014725ML	N,N,N',N'-Tetramethylethylenediamine, 98.0+%	25 mL
T047025ML	1,3,5-Trimethylbenzene, 97.0+%	25 mL
T29931G	Tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]amine, 97.0+%	1 g

Visit [fishersci.com/tci-chemical-ligands](https://fishersci.com/tci-chemical-ligands) or [fishersci.ca/tci-chemical-ligands](https://fishersci.ca/tci-chemical-ligands) to browse hundreds of options.

## Matrix Materials for MALDI

TCI offers various matrices for Matrix Assisted Laser Desorption Ionization (MALDI). To see which analytes are suitable for your applications, please refer to the selection table below.

Cat. No.	Synonym	Proteins	Peptides	Glycans	Lipids	Nucleic Acids	Synthetic Polymers	Other Methods
D2932	SA	✓						
C0002	CA	✓						
F1257	FA	✓						
N1103	NA	✓						
M0247	MBT		✓					
C1297	CMBT	✓	✓	✓				
C1768	α-CHCA	✓	✓	✓				PSD
D0561	2,4-DHAP	✓	✓	✓		✓		ISD
D1955	2,5-DHAP	✓	✓	✓		✓		
D1716	2,6-DHAP	✓	✓	✓		✓		
D2933	DHBA		✓	✓	✓			ISD
D5355	DHB/B		✓	✓	✓			
T1888	THAP		✓	✓	✓	✓		PSD
A0425	AMT			✓				
A0418	3-AQ			✓				
A0859	AHBA			✓		✓		
D5689	1,5-DAN		✓		✓			ISD
B1018	DMAN				✓			
P0421	PA					✓		
H0787	3-HPA					✓		
D1950	DABP					✓		
E1287	Esculetin					✓		
H1622	HABA		✓	✓			✓	
P1121	Norharman	✓	✓	✓	✓	✓	✓	
H1237	Harmaline	✓	✓	✓	✓	✓	✓	
I0025	IAA						✓	
T1166	DIT						✓	
T0168	TPB						✓	
B3635	DCTB						✓	
C0287	CSA						✓	
R0064	ATRA						✓	
A3299	9-ACA						✓	
N0987	9-NA						✓	
A0317	5-ASA		✓					ISD
A0358	5,1-ANL	✓	✓					ISD
H0635	3H4NBA		✓	✓				ISD, NBS
A3298	9-AA				✓			MALDI Imaging



Find essential equipment for your organic chemistry workflow, including rotary evaporators, chromatography systems, freeze dryers, and melting point instruments.



### Convenient, Intelligent Laboratory Evaporation

BUCHI Rotary Evaporators are complete, integrated systems centered around quality and convenience. They can concentrate reaction mixtures or extracts before purification and remove solvents from chromatography fractions.

Cat. No.	Model	Condenser	Bath	Interface	Vacuum Pump	Chiller
05-405-002	Scholar	Cold Trap	4 L Flask, 95°C	–	–	–
05-405-003	Scholar	Chilled Coil	4 L Flask, 95°C	–	–	–
05-405-106	R-100	Cold Trap	4 L Flask, 95°C	–	–	–
05-405-112	R-100	Chilled Coil	4 L Flask, 95°C	–	–	–
05-000-947	R-300	Cold Trap	5 L Flask, 220°C	–	–	–
05-000-977	R-300	Chilled Coil	5 L Flask, 220°C	–	–	–
05-405-196	R-300	Cold Trap	5 L Flask, 220°C	I-300 Pro	–	–
05-405-204	R-300	Chilled Coil	5 L Flask, 220°C	I-300 Pro	V-300	–
05-001-074	R-300	Chilled Coil	5 L Flask, 220°C	I-300 Pro	V-300	F-305

### Smart Purification in a Small Footprint

BUCHI Pure Chromatography Systems fit your needs and environment. With sample and user safety in mind, these systems can quickly isolate basic and complex chemical mixtures, synthetic compounds, natural products, and peptides on a milligram to kilogram scale.



Cat. No.	Model	Type	Detector
11C80500ACA	Pure Scholar	Flash	UV
05-405-103	Pure C-805	Flash	UV
10-987-136	Pure C-810	Flash	UV DAD
10-987-137	Pure C-815	Flash	UV DAD/ELSD
10-987-138	Pure C-830	Prep HPLC	UV DAD
10-987-140	Pure C-835	Flash/Prep HPLC	UV DAD/ELSD



## Optimize Backpressure and Performance

BUCHI FlashPure EcoFlex Chromatography Cartridges are an economical addition to your organic synthesis workflow. They are silica based, well suited for a range of applications and compounds, and come in a variety of sizes.

Cat. No.	Solid Phase	Size	Quantity
05-410-003	Silica	4 g	20/Pack
05-410-004	Silica	12 g	18/Pack
05-410-005	Silica	25 g	12/Pack
05-410-006	Silica	40 g	12/Pack
05-410-026	C18	80 g	2/Pack
05-410-027	C18	120 g	2/Pack
05-410-028	C18	220 g	1/Pack
05-410-029	C18	330 g	1/Pack



## Automation and Control

BUCHI Lyovapor™ Freeze Dryers offer unparalleled automation in sublimation. Easily create and run methods, log data, record charts in real time, and interact from anywhere with mobile devices.

Cat. No.	Capacity	Drying Method	Pump	Trolley
05-405-430	6 kg	12-Position Manifold	–	–
05-403-001	6 kg	12-Position Manifold	–	Yes
05-405-431	6 kg	12-Position Manifold	Pfiever Duo 6	–
05-405-432	6 kg	12-Position Manifold	Pfiever Duo 6	Yes
05-405-433	6 kg	12-Position Manifold	Edwards nXDS6iC	–
05-405-434	6 kg	4 Shelves	Edwards nXDS6iC	–
05-405-435	6 kg	4 Heated Shelves	Pfiever Duo 6	–



## Fast and Accurate Results

Perform quality and final analysis easily and quickly with BUCHI melting and boiling point instruments. Help ensure accuracy with intuitive, menu-guided calibrations, then confidently verify the calibrations against included certified standard compounds.

Cat. No.	Description
10-987-113	Manual Melting Point Apparatus
05-422-993	Automatic Melting Point Instrument, Includes Instrument, Sample Loader, Calibration Set, Tubes, Boiling Capillary, Sample Holder, Cleaning Tool, CD Demo, Protective Cover, USB Cable
10-987-132	Automatic Melting Point Instrument, Includes Instrument, Calibration Set, Tubes, Sample Holder
10-987-133	Automatic Melting Point Instrument, Includes Instrument, Sample Loader, Software Monitor, Calibration Set, Tubes

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## SP Wilmad-LabGlass NMR Tubes

Wilmad has been manufacturing NMR tubes for over 70 years. Each tube is thoroughly inspected to help you get the best spectral resolution.



Cat. No.	Description	Quantity
16-800-557	Benchtop Spectrometer NMR Tubes, 8 in.	25/Pack
16-800-556	Benchtop Spectrometer NMR Tubes, 7 in.	25/Pack
16-800-555	Benchtop Spectrometer NMR Tubes, 8 in.	150/Pack
16-800-554	Benchtop Spectrometer NMR Tubes, 7 in.	150/Pack
16-800-273	Thin-Walled Economy NMR Tubes, 7 in., 100MHz	5/Pack
16-800-274	Thin-Walled Economy NMR Tubes, 8 in., 100MHz	5/Pack
16-800-290	Thin-Walled Economy NMR Tubes, 7 in., 200MHz	5/Pack
16-800-291	Thin-Walled Economy NMR Tubes, 8 in., 200MHz	5/Pack
16-800-318	Thin-Walled Economy NMR Tubes, 7 in., 300MHz	5/Pack
16-800-319	Thin-Walled Economy NMR Tubes, 8 in., 300MHz	5/Pack
16-800-405	Thin-Walled Economy NMR Tubes, 7 in., 400MHz	5/Pack
16-800-406	Thin-Walled Economy NMR Tubes, 8 in., 400MHz	5/Pack
16-800-443	Thin-Walled Economy NMR Tubes, 7 in., 500MHz	5/Pack
16-800-444	Thin-Walled Economy NMR Tubes, 8 in., 500MHz	5/Pack
16-800-471	Thin-Walled Economy NMR Tubes, 7 in., 600MHz	5/Pack
16-800-472	Thin-Walled Economy NMR Tubes, 8 in., 600MHz	5/Pack
16-800-489	Thin-Walled Economy NMR Tubes, 7 in., 700MHz	5/Pack
16-800-495	Thin-Walled, High-Throughput NMR Tubes, 178 mm	100/Pack
16-800-496	Thin-Walled, High-Throughput NMR Tubes, 178 mm	50/Pack
16-800-497	Thin-Walled, High-Throughput NMR Tubes, 203 mm	100/Pack
16-800-498	Thin-Walled, High-Throughput NMR Tubes, 203 mm	50/Pack
16-800-183	Thin-Walled, High-Throughput Economy NMR Tubes, 7 in.	5/Pack
16-800-184	Thin-Walled, High-Throughput Economy NMR Tubes, 8 in.	5/Pack

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## Minimal Paramagnetic Impurities

Maximize SNR with SP Bel-Art™ Thin-Walled Precision NMR Tubes.

Catalog Numbers: 16-800-264, 16-800-265, 16-800-266, 16-800-284, 16-800-285, 16-800-298, 16-800-299, 16-800-300, 16-800-342, 16-800-343, 16-800-381, 16-800-382, 16-800-383, 16-800-432, 16-800-433, 16-800-434, 16-800-468, 16-800-469, 16-800-470, 16-800-492, 16-800-493, 16-800-243



## Decrease Contamination

Avoid binding or freezing with DWK Life Sciences Kimble™ KIMAX™ Separatory Funnels.

Catalog Number: 10-437-10F



## Designed for Easy Recovery

Use DWK Life Sciences Kimble™ Kontes™ Heavy Wall Recovery Flasks for your reactions.

Catalog Numbers: K608675-4124, K608675-4224, 608675-4324, 608675-4624, 608675-4724, 608675-4824



## Short Standard Taper

Choose Fisherbrand™ Reusable Glass Flat-Bottom Boiling Flasks for your research.

Catalog Number: FS25055-500



## Advanced Security Features

Make weighing simple and worry free with METTLER TOLEDO™ MS-TS Analytical Balances.

Catalog Numbers: 01-913-932, 01-913-930, 01-913-931



## Suitable for Lab and Industry Use

View fluid levels easily with Thermo Scientific™ Nalgene™ 489 Linear LDPE Tubing.

Catalog Numbers: 14-176-121, 14-176-121, 14-176-120, 14-176-124, 14-176-126



## Safe Heating and Drying

Perform routine research with Thermo Scientific™ Heratherm™ General Protocol Ovens.

Catalog Numbers: 51-028-112H, 51-028-113H, 51-028-114H, 51-028-121H, 51-028-122H, 51-028-123H, 51-028-872H, 51-028-873H, 51-028-874H, 51-028-875H, 51-029-327H, 51-029-339H



## Liquid-Proof Hand Protection

Improve flexibility and dexterity with Ansell™ AlphaTec™ Chemical Resistant Gloves.

Catalog Numbers: 17-999-821, 17-999-822, 17-999-823, 17-999-824, 17-999-825



## Broad Protective Range

Protect against acids, bases, and more with Ansell AlphaTec Nitrile Chemical Resistant Gloves.

Catalog Numbers: 19-500-933, 19-500-934, 19-500-935, 19-500-936, 19-500-937



## Breathable and Comfortable

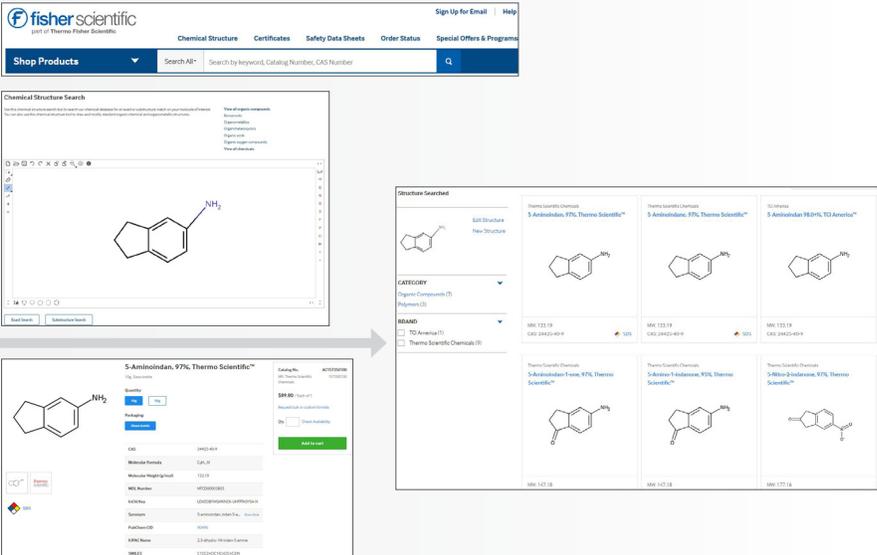
Provide liquid and particulate protection with Ansell™ AlphaTec™ MICROCHEM™ White Coveralls.

Catalog Numbers: 17-999-876, 17-999-877, 17-999-878, 17-999-879, 17-999-880, 17-999-883, 17-999-882, 17-999-881

# Chemical Structure Search Tool

Search the Fisher Scientific chemical database for an exact or substructure match on your molecule of interest. You can also draw and modify standard organic chemical and organometallic structures.

- 1 Search**  
by CAS number, product code, product name, molecular formula, MDL number, and structure
- 2 Search**  
our chemical database for an exact or substructure match on your molecule of interest
- 3 Find**  
the molecules you need using the chemical structure search tool
- 4 View**  
your account-specific pricing and live stock information by signing in to your Fisher Scientific account



Visit [fishersci.com/structuresearch](https://fishersci.com/structuresearch) or [fishersci.ca/structuresearch](https://fishersci.ca/structuresearch) to start your search.

## Talk with a Chemical Specialist

Fisher Scientific chemical application specialists are experts on our entire selection of chemicals and chromatography products. Get your questions answered by contacting our team.

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