

INTRODUCING

# chem dex



Chemicals

## Try the new chem dex™ web app

An innovative chemical index  
for synthetic organic chemistry



## Try chem dex™ – the new web app for synthetic chemists on thermofisher.com

Introducing chem dex, the new web app for synthetic organic chemistry, the fastest and easiest way to find and purchase the right chemicals for your reactions!

Build your reaction of interest in a simple 3-step process, find recommended reagents, catalysts, solvents and building blocks; rely on selected literature references and recommendations for reaction work up.



### Let's get started

Chem dex is a new tool to search related chemicals providing a faster and simpler buying experience: find reagents, solvents, catalysts and building blocks grouped by reactions.

An innovative chemical index for synthetic organic chemistry: explore hundreds of chemical reactions, plan your synthesis, access product recommendations and key literature references.

**thermo scientific | Chemicals**

**Select functional group**

**Get Started**

thermo scientific applied biosystems invitrogen fisherscientific unitylab services patheon PPD

Start building your reaction from selecting one of the 33 functional groups for the starting material.

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thermo scientific Search All Search by catalog number, product name, keyword, application

**Choose a Functional Group**

Amines and Anilines	Diazonium Salts	Boronic Acids and Esters	Carboxylic Acids
Aldehydes and Ketones	Alcohols and Phenols	Aryl Halides	Alkenes
Alkynes	$\alpha,\beta$ -Unsaturated Carbonyls	Nitriles	Arenes
Alkyl Halides	Epoxides	Acyl Chlorides	Amides
Esters	Azides	Nitro Compounds	Thiols

Give Feedback

Functional Group Target Reaction Conditions Previous Next

Next, select the reaction product, via any of the target reaction options.

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Choose a Target Reaction  
Amines and Anilines → Acylation

Reaction scheme:  $R_1-NH-R_2 \rightarrow R_1-NH-CO-R_3$

Options:

- Peptide Coupling
- Acylation**
- Eschweiler-Clarke Methylation
- Reductive Amination
- Direct N-Alkylation
- Sulfonamide Synthesis
- Buchwald-Hartwig Coupling
- Chan-Lam Coupling
- Ullmann-Goldberg Coupling
- SNAr
- Strecker Synthesis
- Boc Protection & Deprotection
- Fmoc Protection & Deprotection
- Cbz Protection & Deprotection
- Urea Synthesis

Navigation:  Functional Group  Target Reaction  Conditions [Previous](#) [Next](#)

Now you will select a condition and click get results to finish.

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Choose a Condition  
Amines and Anilines → Acylation

Reaction scheme:  $R_1-NH-R_2 \rightarrow R_1-NH-CO-R_3$

Options:

- Anhydrous Conditions
- Schotten-Baumann Conditions**

Navigation:  Functional Group  Target Reaction  Conditions [Previous](#) [View results](#) [Show](#)

Shown here are your results. You will see the reaction scheme at the top of your page and the recommended products in the reaction listed below. Select your desired pack size and quantity and simply add to your cart. You can download your selection for offline reference, share your selection with a colleague, explore further to find all building blocks variants from extensive selections. If you would like to build a new reaction simply start over.

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Search All Search by catalog number, product name, keyword, application

Results  
Amines and Anilines → Acylation → Schotten-Baumann Conditions

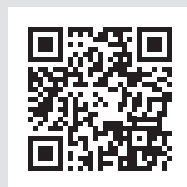
Reaction scheme:  $R_1-NH-R_2 + R_3-CO-Cl \xrightarrow{\text{base solvent, H}_2\text{O}} R_1-NH-CO-R_3$


Actions: [Download](#) [Share](#) [Start over](#) [View literature](#) [Explore further](#) [Edit selections](#)

Reagent type	Formula structure	Description	Price	Quantity
Reagent	CK2O3	Potassium carbonate, 99+%, ACS reagent, anhydrous, Thermo Scientific™ Cas #: 584-095-7 Catalog #: 424081000	USD 35.20	100GR - 1 <a href="#">Select</a>
Reagent	Na2CO3	Sodium carbonate, 99.6%, ACS reagent, anhydrous, Thermo Scientific™ Cas #: 497-19-8 Catalog #: 424280000	USD 83.20	500GR - 1 <a href="#">Select</a>
Reagent	NaOH	Sodium hydroxide, 97%, ACS reagent, pellets, Thermo Scientific™ Cas #: 1310-73-2 Catalog #: 424330100	USD 404.30	10KG - 1 <a href="#">Select</a>
Reagent	KOH	Potassium hydroxide, ca. 85%, ACS reagent, Thermo Scientific™ Cas #: 1310-58-3 Catalog #: 424330100	USD 228.90	8KG - 1 <a href="#">Select</a>

## Chem dex benefits

- A reference tool that can make designing and planning chemical syntheses easier and faster.
- It is the fastest and easiest way to help you find and buy all the products needed for your research in just a few clicks.
- A vast database of reactions that you can build in 3 clicks; finds suggestions and evaluate route options; check literature information; enjoy product recommendations and order what you need in minutes.



 Try it today and improve your results for your research:  
[thermofisher.com/chemdex](https://thermofisher.com/chemdex)

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use. © 2023 Thermo Fisher Scientific Inc. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. **03\_2023**