

ACS REAGENT CHEMICALS



The essential reference for analytical reagents

ACS Reagent Chemicals provides a single-resource solution for any scientist who needs to understand or apply ACS approved methods and specifications for analytical reagents. This reference work has everything needed to ensure the chemicals used in laboratory and manufacturing settings adhere to the standards necessary to safeguard accuracy and safety.

solutions.acs.org/ARC



ACS Publications
Most Trusted. Most Cited. Most Read.



Save time and eliminate mistakes

What is ACS Reagent Chemicals?

The ACS Committee on Analytical Reagents sets purity specifications for almost 500 reagent chemicals and over 500 standard-grade reference materials. In addition, ACS Reagent Chemicals provides general physical properties and analytical uses for all reagent chemicals as well as guidelines for ACS Approved analytical methods, tests, and standards solution preparations.

These specifications and methods have become the de facto standards for chemicals used in many high-purity applications. ACS Reagent Chemicals is often referenced by organizations that set requirements for products in industries such as pharmaceuticals and aerospace, and organizations like the US EPA requires its methods and chemical purities.

As with all of ACS's other resources, there are no seat or simultaneous-user limits.

What is the ACS Committee on Analytical Reagents?

ACS Committee on Analytical Reagents is an independent body created to set reagent standards and develop test methods. The more than 25 members represent all areas of the chemical enterprise—industry, academia, and government—to ensure a balanced approach to developing standards.

Who is it for?

Manufacturers: Safeguard products by ensuring they comply with requirements from governing body organizations. The new online version includes a sticky search box and hyperlinking to make finding information fast and easy.

Corporate Researchers: Develop your techniques by starting with well-established methods and ensure lab experiments produce the same results that will be seen during large-scale production to ensure a smooth transition.

Faculty: Know exactly what's allowed in the reagent-grade chemicals used in the lab and start with well-established methods when developing your techniques. Plus, expose students to a resource they will be using in industrial practice while they're still in the classroom.

Students: Leave school with practical knowledge of a resource often used in industrial and research settings. ACS Reagent Chemicals also provides important safety notifications and a starting point for developing new test methods. Plus, there are useful physical properties of each chemical as well as a list of useful equations and conversions, making it easy to find everything you need in one place.

Why is this now available only online rather than as a printed book?

Standards can change quickly, and we're committed to making sure everyone stays up to date easily. Online-only provides a dynamic environment where it's easy to stay up to date without flipping through pages of revisions.

We've made other useful improvements, including

- Mobile-friendly operation
- Live links between reagents and methods
- HTML or printable PDF formats
- Permanent URLs to the current version
- A quick-glance summary of historic changes and historic versions available
- Full-text and keyword searching—find chemicals by IUPAC or common name, CAS number, formula weight, and more
- Highlights for safety issues, handling requirements, and stock solution preparations
- Clickable, copiable MathJax™ equations that provide easy transfer to LaTeX, Word, and others



Acetone



IR Spectroscopy

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1903> 1925>

The Committee on the Purity of Chemical Reagents, later known as the ACS Committee on Analytical Reagents, is established.

Early specifications are published in *Industrial and Engineering Chemistry (I&EC)*.

1950> 1961>

The First Edition of Reagent Chemicals publishes as a standalone book based on previous specifications published in I&EC.

The Fourth Edition collects new analytical methods into Reagent Chemicals, including flame emission spectroscopy.

1993> 2005>

The Eighth Edition adds gas chromatography, atomic absorption, and coulometric methods.

The Tenth Edition celebrates 100 years and adds ICP-MS methods, better indexing, and "greener testing" methods.

2017

The new online edition of ACS Reagent Chemicals, based on the Eleventh Edition, goes live.

How do I get access?

Contact your sales representative pubs.acs.org/salescontacts or email us at ACSPubsSales@acs.org to review all acquisition options.