

## ORGANIC REAGENTS

		Reagent
44.	Zn/Hg/HCl	carbonyl compound into alkene
45.	H <sub>2</sub> N-NH <sub>2</sub> /KOH	carbonyl compound into alkane
46.	KMnO <sub>4</sub> /OH <sup>-</sup> /K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> /H <sub>2</sub> SO <sub>4</sub> or HNO <sub>3</sub>	Ketones into mixture of carboxylic acids on prolonged oxidation
47.	(AgNH <sub>3</sub> ) <sub>2</sub> /NO <sub>2</sub> /NaOH	Toluen's test
48.	Cu(OH) <sub>2</sub>	Fehling's test
49.	NaOH/H <sub>2</sub> O	iodoform
50.	NaOH or Ba(OH) <sub>2</sub>	aldol condensation
51.	Conc KOH or NaOH	Cannizzaro's reaction
52.	KMnO <sub>4</sub> /KOH	Toluene/alkyl Benzene into Benzoic Acid
53.	H <sub>2</sub> O/H <sup>+</sup>	Cyanides into carboxylic acids, amides into carboxylic acids, esters into carboxylic acids and alcohols, acid chlorides or anhydrides into carboxylic acids
54.	NaOH	Saponification of ester, acid into salt of acid
55.	Na <sub>2</sub> CO <sub>3</sub> or NaHCO <sub>3</sub>	Carboxylic acid test
56.	P <sub>2</sub> O <sub>5</sub> or P <sub>2</sub> O <sub>3</sub>	Dehydration of acids into anhydride, amides into nitriles
57.	KOH and H <sub>2</sub> SO <sub>4</sub>	Carboxylic acids into esters
58.	PCl <sub>5</sub> , SOCl <sub>2</sub> , PCl <sub>3</sub>	Carboxylic acids into acid chlorides
59.	NH <sub>3</sub> , heating	Carboxylic acids into amides
60.	NaOH/CuO	Decarbonylation (Acids into alkanes)
61.	LiAlH <sub>4</sub>	Carboxylic acids into alcohols, amides into amines
62.	Cl <sub>2</sub> /Acet.P <sub>2</sub>	HVL reaction
63.	Sn/HCl or Fe/HCl, H <sub>2</sub> /H <sub>2</sub>	Reduction of nitro compounds into amines
64.	NH <sub>3</sub>	Alkyl halides into amines
65.	H <sub>2</sub> /Ni or H <sub>2</sub> /Pd/LiAlH <sub>4</sub>	Amides into cyanides
66.	KOH/R-X	Phthalimide into amine
67.	NaOH/H <sub>2</sub> O	Hoffmann bromamide, amide into amine with one 'C' less
68.	KOH/CHCl <sub>3</sub>	Amines into Cycloil amines
69.	NaNO <sub>2</sub> /HCl	1° aliphatic amines into alcohols
70.	NaNO <sub>2</sub> /HCl 0°-5°C	Aniline into diazonium chloride
71.	C <sub>6</sub> H <sub>5</sub> SO <sub>2</sub> Cl	Distinguishing 1°, 2° & 3° amines
72.	Bry/H <sub>2</sub> O	Aniline into tri bromo aniline
73.	Bry/CH <sub>3</sub> CO <sub>2</sub> H CH <sub>3</sub> CO <sub>2</sub> O	Aniline into Bromo Aniline

## MAIN REACTIONS

1.	Reduction	$\text{CH}_3\text{Br} + \text{Na} \xrightarrow{\text{Action}} \text{CH}_3\text{I} + \text{NaBr}$
2.	Silver	$\text{CH}_3\text{Br} + \text{Ag}^+ \longrightarrow \text{CH}_3\text{I} + \text{AgBr}$
3.	Friedel-Crafts Alkylation	
4.	Friedel-Crafts Acylation	
5.	Wittig	$\text{R}_2\text{P}=\text{O} + \text{R}-\text{CO}_2^- \xrightarrow[\text{Dry ether}]{\text{Pd}} \text{R}_2\text{P}=\text{O}-\text{R}-\text{CO}_2^- + \text{NaCl}$
6.	Wittig	
7.	Wittig-Ping	
8.	Kolbe	
9.	Reimer-Tiemann	
10.	Williamson	$\text{CH}_3\text{Br} + \text{CH}_3\text{O}^- \longrightarrow \text{CH}_3\text{O}-\text{CH}_3 + \text{NaBr}$
11.	Stephan	$\text{R}_2=\text{N}-\text{Br} + \text{NaO}^- + \text{H}_2\text{O} \longrightarrow \text{R}_2=\text{N}-\text{OH} \xrightarrow{\text{H}_2\text{O}} \text{R}_2=\text{NH}_2$

# Organic Chemistry Reagents List

**R. T. Bottie, J. F. B. Rowland**

## Organic Chemistry Reagents List:

Name Reactions and Reagents in Organic Synthesis Bradford P. Mundy, Michael G. Ellerd, 1988-08-10 This volume is a compilation of the most commonly used and widely known name reactions and reagents in modern synthetic organic chemistry. Each item is listed alphabetically giving structure, physical properties, major uses, preparation, commercial availability, and secondary information. **Information Sources in Chemistry** R. T. Bott, J. F. B. Rowland, 2011-12-01 The aim of each volume of this series *Guides to Information Sources* is to reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information. The criteria for selection provide a way into a subject to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it. The series attempts to achieve evaluation through a careful selection of sources and through the comments provided on those sources. Official Gazette of the United States Patent Office United States. Patent Office, 1953. A Manual of Chemistry, on the Basis of Turner's Elements of Chemistry: Containing, in a Condensed Form, All the Most Important Facts and Principles of the Science John Johnston, 1876

**Chemistry and Industry**, 1999. Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa. United States. Bureau of Mines. Technical Library, Pittsburgh, 1968. **The Chemical Engineer**, 1999. Manual of Chemistry William Simon, 1893. Decisions of the Commissioner of Patents and of the United States Courts in Patent and Trade-mark and Copyright Cases United States. Patent Office, 1954. Compiled from Official gazette. Beginning with 1876 the volumes have included also decisions of United States courts, decisions of Secretary of Interior, opinions of Attorney General and important decisions of state courts in relation to patents, trade marks, etc. 1869-94 not in Congressional set. Checklist of U.S. public documents 1789-1909 p. 530. Court of Customs and Patent Appeals Reports United States. Court of Customs and Patent Appeals, 1952. Decisions of Commissioner of Patents and U.S. Courts in Patent and Trademark and Copyright Cases United States. Patent Office, 1953. **Choice's Outstanding Academic Titles, 1998-2002** Rebecca Ann Bartlett, 2003.

**AI-Guided Design and Property Prediction for Zeolites and Nanoporous Materials** German Sastre, Frits Daeyaert, 2023-01-25. AI Guided Design and Property Prediction for Zeolites and Nanoporous Materials. A cohesive and insightful compilation of resources explaining the latest discoveries and methods in the field of nanoporous materials. In Artificial Intelligence for Zeolites and Nanoporous Materials Design, Synthesis, and Properties Prediction, a team of distinguished researchers delivers a robust compilation of the latest knowledge and most recent developments in computational chemistry, synthetic chemistry, and artificial intelligence as it applies to zeolites, porous molecular materials, covalent organic frameworks, and metal organic frameworks. The book presents a common language that unifies these fields of research and advances the discovery of new nanoporous materials. The editors have included resources that describe strategies to synthesize new nanoporous materials, construct databases of materials structure, directing agents, and synthesis.

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Nature ,1894    **The Encyclopædia Britannica** Thomas Spencer Baynes,1891    *Notes on New Remedies* ,1892

**Activating Agents and Protecting Groups** Anthony J. Pearson,William R. Roush,1999-07-09 Recognising the need for a cost effective reference work that deals not only with the most popular reagents in synthesis but also reaches the widest possible audience of practising organic chemists the editors of The Encyclopedia of Reagents for Organic Synthesis EROS have developed a list of the most important and useful reagents employed in the field conveniently presented in four separate volumes The reagents included in this volume reflect the fact that protecting groups and activation procedures are often used in combination There are many instances in the synthesis of natural and unnatural products pharmaceuticals oligosaccharides and oligonucleotides etc where similar tactics must be employed to prevent undesired activation or reaction of functionality Accordingly the most important reagents used to protect amines alcohols carboxyl carbonyl and other reactive functional groups are included in this volume The list of activating agents includes well known reagents that activate functional groups for substitution or elimination reactions as well as less traditional examples e g HMPA used to activate enolates and alkylolithium reagents to increase the nucleophilicity Each article contains all of the information found in EROS as well as expanded related reagents listings and additional references to enable the reader to quickly access a broad range of information that is beyond the scope of the reagent entries themselves This text will prove an invaluable resource

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