







ORGANIC REAGENTS

| | | |
|----|---|---|
| | | ketone |
| 64 | Zn-Hg/HCl | carbonyl compound into alkane |
| 65 | H ₂ N-NH ₂ /KOH | carbonyl compound into alkane |
| 66 | KMnO ₄ /OH ⁻ /K ₂ Cr ₂ O ₇ /H ₂ SO ₄ or HNO ₃ | Ketones into mixture of carboxylic acids on prolonged oxidation |
| 67 | (Ag/NH ₃)/NO ₂ ⁻ /NaOH | Tollens' test |
| 68 | Cu(OH) ₂ | Fehling's test |
| 69 | NaOH/I ₂ | Iodoform |
| 70 | NaOH or Ba(OH) ₂ | aldol condensation |
| 71 | Conc KOH or NaOH | Cannizzaro's reaction |
| 72 | KMnO ₄ /KOH | Toluene/alkyl Benzene into Benzoic Acid |
| 73 | H ₂ O/H ⁺ | Cyanides into carboxylic acids, amides into carboxylic acids, esters into carboxylic acids and alcohols, acid chlorides or anhydrides into carboxylic acids |
| 74 | NaOH | Saponification of ester, acid into salt of acid |
| 75 | Na ₂ CO ₃ or NaHCO ₃ | Carboxylic acid test |
| 76 | P ₂ O ₅ or P ₂ O ₃ | Dehydration of acids into anhydride, amides into nitriles |
| 77 | ROH/conc H ₂ SO ₄ | Carboxylic acids into esters |
| 78 | PCl ₅ , SOCl ₂ , PCl ₃ | Carboxylic acids into acid chlorides |
| 79 | NH ₃ heating | Carboxylic acids into amides |
| 80 | NaOH/CaO | Decarboxylation (acids into alkanes) |
| 81 | LiAlH ₄ | Carboxylic acids into alcohols, amides into amines |
| 82 | Cl ₂ /red P ₂ | HVZ reaction |
| 83 | Sn/HCl or Fe/HCl, H ₂ /Pd | Reduction of nitro compounds into amines |
| 84 | NH ₃ | Alkyl halides into amines |
| 85 | H ₂ /Ni or H ₂ /Pd, LiAlH ₄ | Amides into cyanides |
| 86 | KOH/R-X | Phthalimide into amine |
| 87 | NaOH/Br ₂ | Hoffman bromamide, amide into amine with one :C ⁺ less |
| 88 | KOH/CHCl ₃ | Amines into Carbyl amines |
| 89 | NaNO ₂ /HCl | 1° aliphatic amines into alcohols |
| 90 | NaNO ₂ /HCl 0°-5°C | Aniline into diazonium chloride |
| 91 | C ₆ H ₅ SO ₃ Cl | Distinguishing 1°, 2° & 3° amines |
| 92 | Br ₂ /H ₂ O | Aniline into tri bromo aniline |
| 93 | Br ₂ /CH ₃ CO ₂ Cl (CHCO ₂) ₂ O | Aniline into Bromo Aniline |

NAME REACTIONS

| | |
|------------------------------|--|
| 1. Fittelson | $\text{CH}_3\text{Br} + \text{Na} \xrightarrow{\text{ethanol}} \text{CH}_3\text{I} + \text{NaBr}$ |
| 2. Swarts | $\text{CH}_3\text{Br} + \text{AgI} \longrightarrow \text{CH}_3\text{I} + \text{AgBr}$ |
| 3. Friedel-Crafts Alkylation |  |
| 4. Friedel-Crafts Acylation |  |
| 5. Wurtz | $\text{n-Pr-I} + \text{C}_2\text{H}_5\text{I} \xrightarrow[\text{Dry ether}]{2\text{Na}} \text{n-Pr-C}_2\text{H}_5 + \text{NaI}$ |
| 6. Fittig |  |
| 7. Wurtz-Fittig |  |
| 8. Kolbe |  |
| 9. Reimer-Tiemann |  |
| 10. Williamson | $\text{CH}_3\text{Br} + \text{CH}_3\text{ONa} \longrightarrow \text{CH}_3\text{O-CH}_3 + \text{NaBr}$ |
| 11. Stephen | $\text{n-Pr-CHO} + \text{SnCl}_2 + \text{HCl} \longrightarrow \text{n-Pr-CH}_2\text{NH}_2 \xrightarrow{\text{H}_2\text{O}} \text{n-Pr-OH}$ |

Organic Chemistry Reagents List

Thomas Spencer Baynes



Organic Chemistry Reagents List:

Name Reactions and Reagents in Organic Synthesis Bradford P. Mundy, Michael G. Eller, 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. Bottle, 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

conditions and explain computational methods to generate new materials They also offer material that discusses AI and machine learning algorithms as well as other similar approaches to the field Readers will also find a comprehensive approach to artificial intelligence applied to and written in the language of materials chemistry guiding the reader through the fundamental questions on how far computer algorithms and numerical representations can drive our search of new nanoporous materials for specific applications Designed for academic researchers and industry professionals with an interest in synthetic nanoporous materials chemistry Artificial Intelligence for Zeolites and Nanoporous Materials Design Synthesis and Properties Prediction will also earn a place in the libraries of professionals working in large energy chemical and biochemical companies with responsibilities related to the design of new nanoporous materials **Chemical and**

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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 alkyllithium 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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