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**Aldehydes**

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An asymmetric  
*Page 5/26*

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rhodium(III)-catalyzed Grignard-type addition of inert arene C-H bond to aldehydes is reported. It provides a new strategy for the synthesis of chiral 3-substituted phthalides in good yields (up to 87%) with high enantiomeric purity (up to 99% ee).

**Rhodium(III)-Catalyzed Asymmetric Addition of Inert Arene ...**

*Page 6/26*

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Arenes are aromatic hydrocarbons. The term "aromatic" originally referred to their pleasant smells (e.g., from cinnamon bark, wintergreen leaves, vanilla beans and anise seeds), but now implies a particular sort of delocalized bonding.

### **Arenes - Chemistry LibreTexts**

The arenes you are likely to encounter at

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this level are based on benzene rings. The simplest of these arenes is benzene itself,  $C_6H_6$ . The next simplest arene is methylbenzene (common name: toluene), which has one of the hydrogen atoms attached to the ring replaced by a methyl group -  $C_6H_5CH_3$ .

## **Properties of Arenes - Chemistry**



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**LibreTexts**

Arenes are insoluble in water due to the presence of long hydrocarbon part (benzene ring) but fairly soluble in organic solvents. Melting and Boiling Point of Arenes. The boiling points and melting points of arenes increase with increase in the mass due to the corresponding increase in the magnitude of van der Waal's forces

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of attraction.

Arenes Aldehydes

**Physical Properties**

**of Arenes | Organic**

**Chemistry Tutorial**

Facile conversion of  $\alpha, \beta$ -

unsaturated aldehydes

and ketones into highly

substituted arenes via

a base-mediated,

completely

regioselective, air-

oxidative [3 + 3]

benzannulation

reaction with readily

available

4-sulfonylcrotonates or

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1,3-bisphenylsulfonylpr  
opene is reported. The  
reaction can also be  
carried out as a one-  
pot, three-component  
operation using  
4-bromocrotonates,  
aryl sulfinates ...

**Regioselective  
Synthesis of  
Substituted Arenes  
via Aerobic ...**

Electron-rich arenes  
condense efficiently  
with various aldehydes  
under the influence of

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AuCl<sub>3</sub>, thus opening up a practical route to triarylmethanes, which have important applications. The mild conditions employed are especially noteworthy.

### **Practical Synthesis of Triaryl- and Triheteroarylmethanes ...**

Aldehydes are made by oxidising primary alcohols. There is, however, a problem.

The aldehyde produced

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Aromatic Aldehydes

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can be oxidised further to a carboxylic acid by the acidified potassium dichromate(VI) solution used as the oxidising agent. In order to stop at the aldehyde, you have to prevent this from happening. To stop the oxidation at the aldehyde, you . . .

## **Preparation of Aldehydes and Ketones - Chemistry LibreTexts**

The steam is then

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passed into a flask containing the impure organic mixture which lowers the boiling point of the compounds in the mixture; If the organic product is less volatile than the components in the mixture you're separating it from, the organic product and the steam will evaporate out of the impure mixture together.

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**Edexcel Chemistry -**

**Topic 18: Organic III**

**| A\* Chemistry**

Complete Organic

Chemistry Textmaps

can be found in the

Textmap section. Acid

Halides. Alkanes.

Alkenes. Alkynes.

Alcohols. Aldehydes

and Ketones. Alkyl

Halides.

**Supplemental**

**Modules (Organic**

**Chemistry) -**

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Organic Chemistry I &

II is designed for

instructors who want

an active, dynamic,

and understandable

approach to support

their own efforts in the

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approachable language

in order to make

difficult concepts

easier to understand

and implement.



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**Organic Chemistry I**

**& II | Reading**

**Assignment:**

**Aldehydes ...**

Reactions of arenes and heteroarenes with aromatic aldehydes proceeded smoothly in the presence of a catalytic combination of  $[\text{Ir}(\text{COD})\text{Cl}]_2 - \text{SnCl}_4$  to afford the corresponding triarylmethane derivatives (TRAMs) in high yields. This 100% TRAM selective

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transformation is clean  
and eliminates the use  
of acid systems.

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**Highly ...**

Abstracts in

Preparative Organic

Chemistry Efficient

Condensation

Reactions of

Electron-Rich Arenes

with Aldehydes and

Enals Promoted by

Gold(III) Chloride:

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Practical Synthesis of  
Triaryl- and  
Triheteroarylmethanes  
and Related  
Compounds.

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**Efficient  
Condensation**

**Reactions of  
Electron-Rich Arenes**

...

Iron-Catalyzed Cascade  
Arene–Aldehyde  
Addition/Cyclizations  
for the Highly Efficient  
Synthesis of Xanthenes  
and Its Analogous:

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Observation of a C–C  
Bond Cleavage in  
Indole-Based  
Triarylmethanes. The  
Journal of Organic  
Chemistry 2009, 74  
(17) , 6797-6801. DOI:  
10.1021/jo9012354.

**Practical Synthesis  
of Triaryl- and Trihet  
eroarylmethanes ...**

Enter a query to search  
our site. Note that you  
can use wildcards such  
as "\*" for multiple  
characters and "?" for a

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single character.

Enclosing more than

one word in double

quotes ("green

chemistry") will search

for the exact phrase.

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**Organic Chemistry**

**Portal - Literature**

...thiazoles from simple

aldehydes, amines,

and element sulfur ...

solvent-free synthesis

of 2-aminothiazoles

and 2-amino-1,3-selena

zoles without the ...

ketones with

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phosphorus

pentasulfide and

triethylamine in

chloroform gives

5-arylthiazoles ...

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**Portal - Literature**

Such an important

functional group

deserves a proper

introduction. This video

will look at what the

carbonyl group is,

physical properties and

a reminder of basic

aldehyde and ketone

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chemistry.

Arenes Aldehydes

**Aldehydes and  
Ketones - Intro to  
carbonyl group**

Palladium-catalyzed  
ortho-acylation of  
arenes with aldehydes  
in the presence of  
tert-butyl

hydroperoxide (TBHP)  
as the oxidant under  
aqueous conditions has  
been demonstrated.

The acylation reaction  
exhibits excellent  
regioselectivity and

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wide functional group

tolerance.

Aldehydes

Ketones And

**Palladium-Catalyzed**

**Oxidative Direct**

**ortho-C-H Acylation**

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..

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¥Addition reactions to aldehydes and ketones

using Grignard

reagents are among

the most important

reactions in organic

synthesis. ¥These

reactions are carbon-

carbon bond forming

reactions. ¥The net



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result of the reaction is

the addition of the

elements of R-H across

the C=O double bond.

C O R M g B r O C R H 1.

2.

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**Carbonyl Chemistry**

**(12 Lectures)**

<http://leah4sci.com/organicchemistry/>

presents: Naming

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