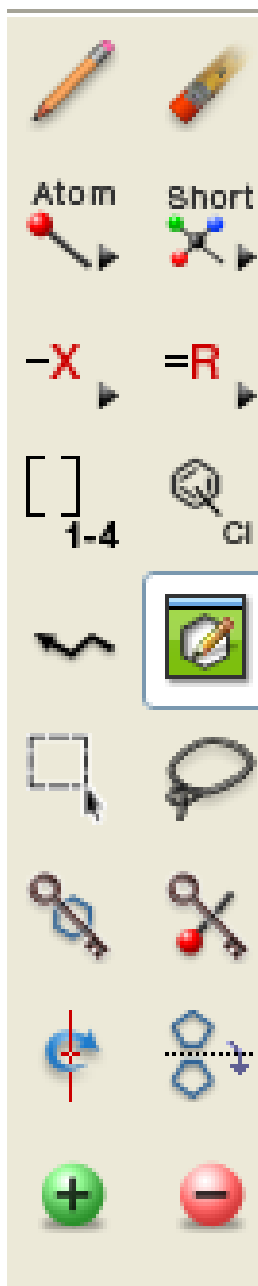




BÚSQUEDA POR REACCIONES



Lápiz



Borrador



Contiene símbolos predeterminados



Contiene grupos predeterminados

Variables ✕

X	Any halogen
M	Any metal
A	Any atom except H
Q	Any atom except C or H
Ak	Any alkyl chain
Cy	Any cycle
Cb	Any carbocycle
Hy	Any heterocycle

Close

R-group Definitions ✕

Atom

Short

-X

R1 =	
R2 =	
R3 =	
R4 =	

Close

Atoms ✕

H	Li	Na	K	Rb	Cs	Fr	Be	B	C	N	O	F	Ne
...

Close

Shortcuts ✕

CH	Bu-n	o-C ₆ H ₄	Cl ₃	NH ₂
CH ₂	Bu-i	m-C ₆ H ₄	CHO	NH ₃
Me	Bu-s	p-C ₆ H ₄	CN	NO ₂
OMe	Bu-t	CF ₂	C(O)CH ₃	OH
Et	OBu-n	CF ₃	CO ₂ H	OPO ₃ H ₂
OEt	OBu-i	CCl ₂	COOH	OSO ₃ H
Pr-n	OBu-s	CCl ₃	COSH	PO ₃ H ₂
Pr-i	OBu-t	CBr ₂	CS ₂ H	SH
OPr-n	Ph	CBr ₃	CSSH	SO ₂
OPr-i	OPh	Cl ₂	NH	SO ₃ H

Close

Variables ✕

X	Any halogen
M	Any metal
A	Any atom except H
Q	Any atom except C or H
Ak	Any alkyl chain
Cy	Any cycle
Cb	Any carbocycle
Hy	Any heterocycle

Close



Para “bloquear” anillos o cadenas y que no se produzcan fusiones



Para “bloquear” átomos. Los “shortcuts” están bloqueados por definición.



Se usa para rotar una estructura o un fragmento – que no esté unido- en el sentido de las agujas del reloj o el contrario.



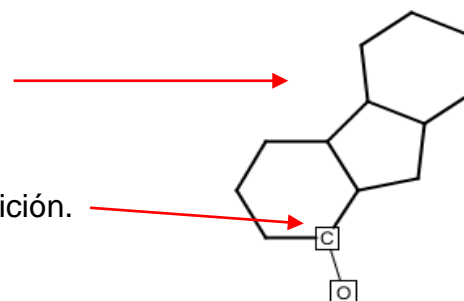
Invertir una estructura, bien horizontal o verticalmente. Se seleccionan los puntos que se quieren invertir: control + click y: a) horizontal: marcar H; b) vertical: marcar: V



Añadir carga positiva




Añadir carga negativa



Herramientas para la búsqueda por reacciones

 Flecha de reacción

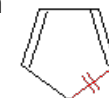
 La misma función que la anterior pero se despliega un cuadro de diálogo para preguntar sobre la función de la estructura o el grupo funcional en la reacción: product, reactant, reagent, **Reactant or Reagent**, cualquier función, non reacting (sólo para grupos funcionales)



Se define un react/product o un par de átomos react/product



Se señala el enlace o enlaces por donde va a tener lugar una transformación



alchc
ketor
aldef

Grupos funcionales

Functional Groups

Select a term below. Then click in the structure drawing window to draw the term.

Acid Halide

Acetal
Acetyl
Acid Halide
Acyclic Alkene
Acyclic Ketone
Acylmetal
ALCOHOLS
Aldehyde
pi-Alkene

$O=C-X$

See class term:
[CARBOXY DERIVATIVES](#)
[HALIDES](#)

Terms displayed

All Class Terms Rings Non-rings

Close

Functional Groups

Select a term below. Then click in the structure drawing window to draw the term.

HALIDES

ALKENES
ALKYNES
AMINES
CARBONATE DERIVATIVES
CARBOXY DERIVATIVES
HALIDES
HETEROCYCLES
KETONES
ORGANOMETALLICS

HALIDES is a class that includes:
[Acid Halide](#)
[Alkyl Halide](#)
[Allyl Halide](#)
[Aryl Halide](#)
[Chloramine](#)
[gem-Dihalide](#)
[vic-Dihalide](#)
[Haloformate](#)
[Halohydrin](#)

Terms displayed

All Class Terms Rings Non-rings

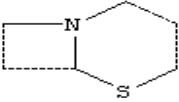
Close

Functional Groups

Select a term below. Then click in the structure drawing window to draw the term.

Cephem

pi-Alkene
pi-Alkyne
pi-Allyl
Aryl Halide
Arylsulfonyl
Aziridine
Cephem
Cyclic Alcohol
Cyclic Alkene



See class term:
[HETEROCYCLES](#)

Terms displayed

All Class Terms Rings Non-rings

Close

Functional Groups

Select a term below. Then click in the structure drawing window to draw the term.

Anhydride

Allene
Allyl Alcohol
Allyl Halide
Amide
Amidine
Amine Oxide
Anhydride
Azide
Azine

$O=C-O-C=O$

See class term:
[CARBOXY DERIVATIVES](#)

Terms displayed

All Class Terms Rings Non-rings

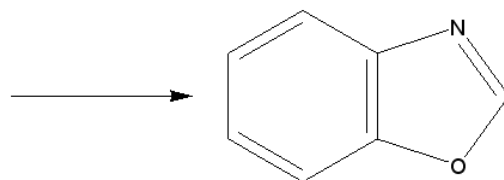
Close

¿Qué vamos a hacer?

1. Una búsqueda por reacciones empleando una subestructura como producto
2. Refinar la búsqueda
3. Recuperar reacciones y eliminar las no deseadas
4. Recuperar las referencias en las que aparecen estas reacciones

EJEMPLO:

Sintetización de derivados de benzoxazol (C_7H_5NO) a través de la formación de un anillo de benceno



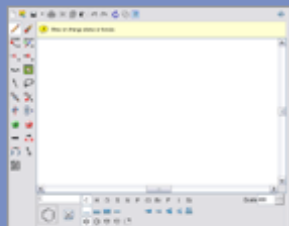
Sign Out

Iniciaremos la búsqueda seleccionando
"Explore Reactions"

Explore Reactions

Reaction Structure

Reaction Structure



Click image to draw or import structure

Search

Solvents

Select Solvents **NEW**

Number of Steps

Examples: 1, 1 - 3, 1 -, - 3

Classification(s)

Biotransformation

Electrochemical

Radiochemical

Catalyzed

Gas-phase

Regioselective

Chemoselective

Non-catalyzed

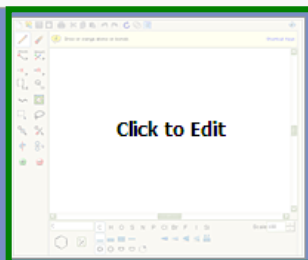
Stereoselective

Combinatorial

Photochemical

Explore Reactions

[Reaction Structure](#)
[Reaction Structure](#)



Para abrir el editor de dibujo hay que pinchar en la imagen

Solvent(s)

[Select Solvents](#)

Non-participating Functional Group(s)

[Select Groups](#)

Number of Steps

Examples: 1, 1-3, 1-, -3

Classification(s)

- | | | |
|--|--|--|
| <input type="checkbox"/> Biotransformation | <input type="checkbox"/> Electrochemical | <input type="checkbox"/> Radiochemical |
| <input type="checkbox"/> Catalyzed | <input type="checkbox"/> Gas-phase | <input type="checkbox"/> Regioselective |
| <input type="checkbox"/> Chemoselective | <input type="checkbox"/> Non-catalyzed | <input type="checkbox"/> Stereoselective |
| <input type="checkbox"/> Combinatorial | <input type="checkbox"/> Photochemical | |

Source(s)

- Any source
 Patents only
 Sources other than patents

Publication Year(s)

Examples: 1995, 1995 - 1999, 1995-, -1995

Saved Answer Sets

Reacciones

[View All](#)

[Import](#)

Keep Me Posted Results

No profiles exist

My Connections

No invitations to connect

No outstanding sent invitations

No connection with colleagues

SciFinder®

Welcome Esther Escriche | Sign Out

Explore Reactions

Reaction Structure

Solvent(s)

Non-participating Functional Group(s)

Number of Steps

Classification(s)

Source(s)

Publication Year(s)

Explore References

Explore Substances

Explore Reactions

Saved Answer Sets

Keep Me Posted Results

My Connections

Help

History

Preferences

Reaction Editor

Delete atoms or bonds.

Atom Short

-X =R

1-4 Cl

+

-

→ A B

alchc ketor alder

C H O S N P Cl Br F I Si

Scale 100

Acceptar

Cancelar

(query)

Drawing Editor:

- Structure
- Reaction
- Markush

Get reactions where the structure(s) are:

- Variable only at the specified positions
- Substructures of more complex structures

Reaction Editor

Delete atoms or bonds.

Atom Short

-X =R

1-4 Cl

alchc ketor alder

C H O S N P Cl Br F I Si

Scale 100

(query)

Drawing Editor:

- Structure
- Reaction
- Markush

Get reactions where the structure(s) are:

- Variable only at the specified positions
- Substructures of more complex structures

Aceptar

Cancelar

Reaction editor

File Edit View

Welcome to SciFinder

Explore Reaction

Drag the reaction arrow to specify reaction direction. Default role assignments may be changed using the Reaction role tool.

Atom Short

-X =R

[] 1-4 Cl

alchc ketor alder

product

Get reactions where the structure(s) are:

Variable only at the specified positions

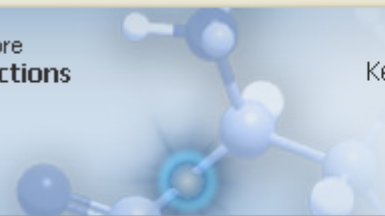
Substructures of more complex structures

OK

Cancel

C7 H5 N O (query)

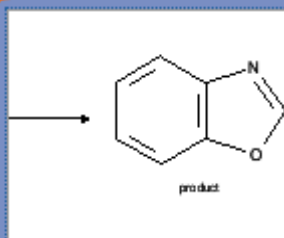
En esta búsqueda de reacción con una subestructura, elegimos la opción "Substructures of more complex structures"



Explore Reactions

Reaction Structure

Reaction Structure ⓘ



Click image to change structure or view detail

Search type: ⓘ Allow variability only as specified
 Substructure

Search

Una vez dibujada la reacción y dar OK, volvemos a la pantalla de *Explore Reactions*

Solvents ⓘ

Select Solvents **NEW**

Number of Steps ⓘ

Examples: 1, 1-3, 1-, -3

Classification(s) ⓘ

Biotransformation

Electrochemical

Radiochemical

Catalyzed

Gas-phase

Regioselective

Chemoselective

Non-catalyzed

Stereoselective

Welcome Gayle Bussell | Sign Out

Create Keep Me Posted > Reaction Structure substructure > reactions (32564)

Reactions

Se recuperan 32564 reacciones

32564 Reactions

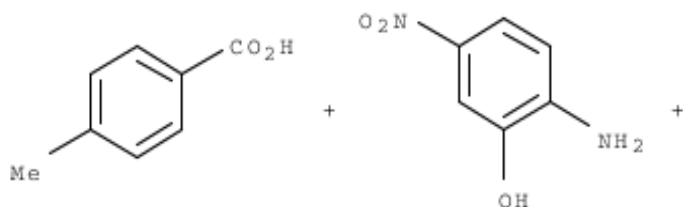
Save Print Export

Select All Deselect All | Sort by:

Answers per Page [15] 1 2 3 4 5 6 ... 2171

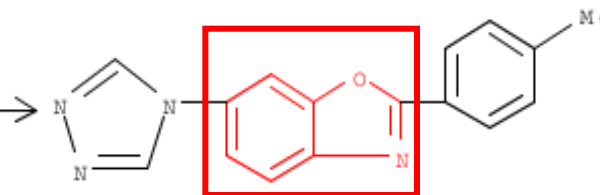
Display:

1. Reaction Detail [Link](#)



Se han recuperado tantas reacciones porque no se ha especificado ningún reactivo, mecanismo de reacción, etc.

- 1.1 8 h, heated
- 1.2 R:NaOH, S:H₂O, cooled
- 2.1 R:HCl, R:Fe, S:H₂O, S:EtOH, 80-85 °C; 3-4 h, 80-85 °C
- 2.2 R:NaOH, S:H₂O, pH 7-8
- 3.1 S:MeCN, 30 min, rt → 50 °C
- 3.2 C:AcOH, S:MeCN, 3 h, 50 °C → 120 °C; cooled



NOTE: 1) polyphosphoric acid used as reagent in stage 1, excess of NaOH used in stage 2,
 Reactants: 4, Reagents: 3, Catalysts: 1, Solvents: 3,
 Steps: 3, Stages: 6, Most stages in any one step: 2

Analysis

Sample Analysis

Catalyst

Pd

4-PyNMe₂

Pd(PPh₃)₄

AcOH

Ph₂-pentadienone Pd

DMF

Ni

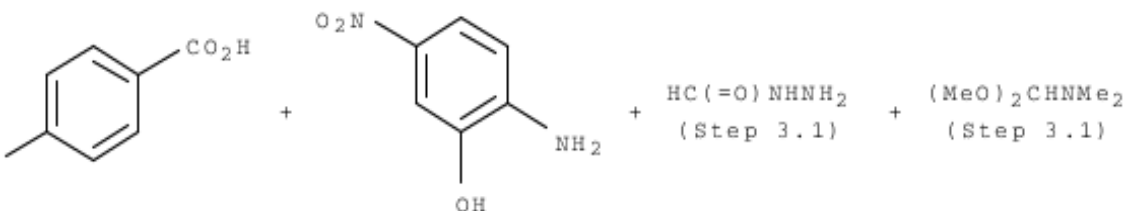
Pd(OH)₂

95464-05-4

p-MeC₆H₄SO₃H

Para acotar la búsqueda tenemos dos herramientas: Analysis y Refine

Reaction Detail [Link](#)



1 8 h, heated
 2 R:NaOH, S:H₂O, cooled
 1 R:HCl, R:Fe, S:H₂O, S:EtOH, 80-85 °C;
 3-4 h, 80-85 °C
 2 R:NaOH, S:H₂O, pH 7-8
 1 S:MeCN, 30 min, rt → 50 °C
 2 C:AcOH, S:MeCN, 3 h, 50 °C → 120 °C; cooled

TE: 1) polyphosphoric acid used as reagent in stage 1, excess of NaOH used in stage 2,
 Reactants: 4, Reagents: 3, Catalysts: 1, Solvents: 3,

Analysis

Refine

Sample Analysis ⓘ

Pd	<div style="width: 10%;"></div>
4-PyNMe ₂	<div style="width: 10%;"></div>
Pd(PPh ₃) ₄	<div style="width: 10%;"></div>
AcOH	<div style="width: 10%;"></div>
Ph ₂ -pentadienone Pd	<div style="width: 10%;"></div>
DMF	<div style="width: 10%;"></div>
Ni	<div style="width: 10%;"></div>
Pd(OH) ₂	<div style="width: 10%;"></div>
95464-05-4	<div style="width: 10%;"></div>
p-MeC ₆ H ₄ SO ₃ H	<div style="width: 10%;"></div>

SciFinder® Explore References Explore Substances Explore Reactions

Welcome Esther Escriche | Sign Out

Create Keep Me Posted Reaction Structure substructure > reactions (54)

Reactions Get References Find Additional Reactions

54 Reactions 0 Selected Keep Selected Remove Selected

Select All Deselect All Sort by: Accession Number

1. Reaction Detail Link

CC(=O)OCC + C=C1C=CC=S1

1.1 R:NaOEt, S:Et₂O, 20 h, rt
 1.2 R:AcOH, rt
 1.3 R:NaOH, S:H₂O, 6 h, reflux
 2.1 R:AcONa, R:H₂NOH·HCl, S:H₂O, S:EtOH, 1 h, reflux
 3.1 R:C₅H₅N, S:C₅H₅N, 0-2°C; 2 h, 0°C
 4.1 R:NaOEt, S:EtOH, 8 h, reflux
 4.2 R:AcOH, acidify
 4.3 R:HCl, S:H₂O
 4.4 R:AcONa, S:H₂O, 30 min, 70°C
 5.1 R:POCl₃, S:POCl₃, 3 h, reflux
 5.2 R:H₂O
 6.1 R:DDQ, S:Dioxane, 8 h, 105°C

NOTE: 2) stereoselective, 4) stereoselective, in-situ generated reagent(1st stage), 5) chemoselective,
 Reactants: 4, Reagents: 10, Solvents: 6,
 Steps: 6, Stages: 12, Most stages in any one step: 4

A novel synthetic route for the synthesis of 4,6-diaryl-2-methyl-1,3-benzoxazoles
 By Sridharan, V. et al
 From Journal of Heterocyclic Chemistry, 42(7), 1321-1330; 2005

De todas las posibilidades que Ofrece esta opción, elegiremos "Reaction Structure".

Pinchamos en el editor de dibujo

Refine by:

- Reaction Structure
- Product Yield
- Number of Steps
- Reaction Classification
- Excluding Reaction Classification
- Non-participating functional groups

Reaction Structure

Click image to change structure or view detail

Search type: Substructure

Refine

Reaction editor

Draw or change atoms or bonds.

Atom Short

-X =R

[] 1-4 Cl

alchc ketof aldeh

A B

product

Scale 100

Get reactions where the structure(s) are:

Variable only at the specified positions

Substructures of more complex structures

OK

Cancel

C7 H5 N O (query) 119.12

Se abre el editor de dibujo y seleccionamos la herramienta que nos permitirá elegir por dónde queremos que se dé el enlace

Reaction editor

Click bonds to be formed or broken during the reaction.

product

Get reactions where the structure(s) are:

- Variable only at the specified positions
- Substructures of more complex structures

OK

Cancel

Seleccionamos "Substructures of more complex structures" y OK

C₇ H₅ N O (query)

[Sign Out](#)
[Explore References](#)
[Explore Substances](#)
[Explore Reactions](#)
[Saved Answer Sets](#)
[Help](#)
[Keep Me Posted Results](#)
[History](#)
[NEW My Connections](#)
[Preferences](#)

[Reaction Structure substructure](#) > **reactions (32564)**

[Get References](#)

actions 0 Selected Keep Selected Remove Selected Save Print Export

[Deselect All](#) Sort by: [Accession Number](#)

Answers per Page [15] 1 2 3 4 5 6 ... 2171

Display:

Reaction Detail [Link](#)

1 8 h, heated
 2 R:NaOH, S:H₂O, cooled
 1 R:HCl, R:Fe, S:H₂O, S:EtOH, 80-85°C;
 3-4 h, 80-85°C
 2 R:NaOH, S:H₂O, pH 7-8
 1 S:MeCN, 30 min, rt → 50°C
 2 C:AcOH, S:MeCN, 3 h, 50°C → 120°C; cooled

RE: 1) polyphosphoric acid used as reagent
 stage 2,
 Reactants: 4, Reagents: 3, Catalysts:
 Steps: 3, Stages: 6, Most stages in ar

En la imagen ya aparecen los cambios realizados.

Al pinchar OK, volvemos a la página de "Explore reactions".

Analysis **Refine**

Refine by:

- Reaction Structure
- Product Yield
- Number of Steps
- Reaction Classification
- Excluding Reaction Classification

Reaction Structure:

product

Click image to change structure or view detail

Search type: **Substructure**

[Refine](#)

Reactions

Se recuperan 54 reacciones

54 Reactions

Save Print Export

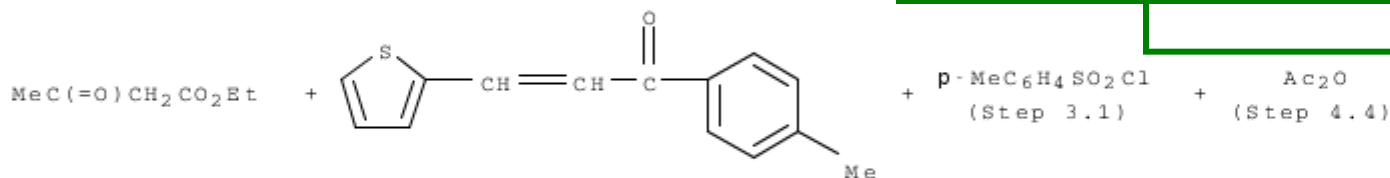
Select All Deselect All | Sort by: Accession Number

Answers per Page [15] 1 2 3 4

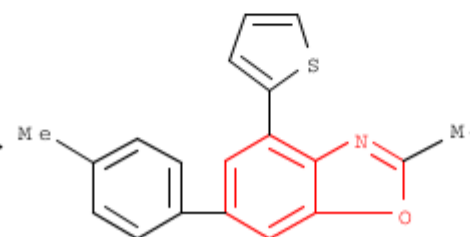
1. Reaction Detail [Link](#)

Pinchamos en el icono de "one reaction per reference"

Display:



- 1.1 R:NaOEt, S:Et₂O, 20 h, rt
- 1.2 R:AcOH, rt
- 1.3 R:NaOH, S:H₂O, 6 h, reflux
- 2.1 R:AcONa, R:H₂NOH-HCl, S:H₂O, S:EtOH, 1 h, reflux
- 3.1 R:C₅H₅N, S:C₅H₅N, 0-2°C; 2 h, 0°C
- 4.1 R:NaOEt, S:EtOH, 8 h, reflux
- 4.2 R:AcOH, acidify
- 4.3 R:HCl, S:H₂O
- 4.4 R:AcONa, S:H₂O, 30 min, 70°C
- 5.1 R:POCl₃, S:POCl₃, 3 h, reflux
- 5.2 R:H₂O



Anal

Analyz

Catalys

Click bar within th

HCl

Show

| Sign Out

Create Keep Me Posted > Reaction Structure substructure > reactions (32564) > refine "substructure" (54)

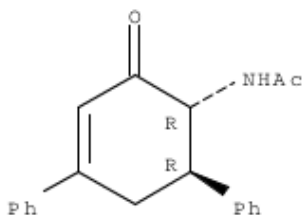
Reactions  Get
References

54 Reactions 0 Selected Keep Selected Remove Selected

Save Print Export

Select All Deselect All | Sort by: Accession Number

Answers per Page [15]

Display:   (9 References) 40. ▲40 Hit Reactions in this Reference

Relative stereochemistry.

NOTE: 1) chemoselective,

Reactants: 1, Reagents: 3, Solvents: 2,

Steps: 2, Stages: 3, Most stages in any one step: 2

A novel synthetic route for the synthesis of 4,6-diaryl-2-methyl-1,3-benzoxazoles

By Sridharan, V. et al


From Journal of Heterocyclic Chemistry, 42(7), 1321-1330; 2005

 43. ▲3 Hit Reactions in this Reference

Entre paréntesis aparecen las referencias asociadas a las reacciones.

En este caso, las 54 reacciones están incluidas en 9 referencias.

Analysis

Analyze by: 

Catalyst

Click bar to view on,
within the current a

HCl

Show More

Reactions | References | Reactions | Answer Sets

54 Reactions | 0 Selected | Keep Selected | Remove Selected

Select All | Deselect All | Sort by: Accession Number

Save | Print | Export

Answers per Page [15]

Display: (9 Reactions)

40. ▲ 40 Hit Reactions in this Reference

Relative stereochemistry.

1.1 R:POCl₃, S:POCl₃, 3 h, reflux
 1.2 R:H₂O
 2.1 R:DDQ, S:Dioxane, 8 h, 105°C

NOTE: 1) chemoselective,
 Reactants: 1, Reagents: 3, Solvents: 2,
 Steps: 2, Stages: 3, Most stages in any one step: 2

A novel synthetic route for the synthesis of 4,6-diaryl-2-methyl-1,3-benzoxazoles
 By Sridharan, V. et al
 From Journal of Heterocyclic Chemistry, 42(7), 1321-1330; 2005

43. ▲ 3 Hit Reactions in this Reference

1 S:ClCH₂CH₂Cl
 2 S:CHCl₃

NOTE: 1) 30 MIN, DIRHODIUM TETRAACETATE, 2) 2 H,
 Reactants: 2, Solvents: 2,
 Steps: 2, Stages: 2

Synthesis and reactions of a novel furo[3,4-d]oxazole
 By Reck, Stephan and Friedrichsen, Willy
 From Journal of Organic Chemistry, 63(22), 7680-7686; 1998

De esta forma se muestran las reacciones asociadas a cada referencia. Así como el resto de reacciones incluidas en esa referencia.

Referencia con 40 reacciones (1,2,...,40)

Referencia con 3 reacciones (41, 42, 43)

Analyze by: Catalyst

Click bar to view only those reactions within the current answer set

HCl 1

Show More

SciFinder® Explore References Explore Substances Explore Reactions

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Create Keep Me Posted Reaction Structure substructure > reactions (54) > reactions in "New Perspectives in Oxazole Ch..." (2)

Reactions Get References Find Additional Reactions Combine Answer Sets

54 Reactions 40 Selected **Keep Selected** Remove Selected

Select All Deselect All Sort by: Accession Number

Print Export

Items per Page [15]

▲ (9 Reactions)

Analysis Refine

Analyze by: Catalyst

Click bar to view only those reactions within the current answer set

HCl 1

Show More

40. ▲ 40 Hit Reactions in this Reference

Relative stereochemistry.

NOTE: 1) chemoselective,
Reactants: 1, Reagents: 3, Solvents: 2,
Steps: 2, Stages: 3, Most stages in any one step: 2

A novel synthetic route for the synthesis of 4,6-diaryl-2-methyl-1,3-benzoxazoles
By Sridharan, V. et al
From Journal of Heterocyclic Chemistry, 42(7), 1321-1330; 2005

43. ▲ 3 Hit Reactions in this Reference

(Step 2.1)

Keep Selected: seleccionamos las reacciones que nos interesan.

Remove Selected: eliminamos las reacciones que no son de interés

Welcome Esther Escriche | [Sign Out](#)

[Create Keep Me Posted](#) | [Reaction Structure](#)

Reactions **Get References**

Con la opción "Get references" recuperamos las 9 referencias bibliográficas asociadas a esta búsqueda

54 Reactions 0 Selected [Keep Sele](#)

[Select All](#) [Deselect All](#) Sort by: [Acc](#)

[Save](#) [Print](#) [Export](#)

Answers per Page [15] **1** 2 3 4 ▶

Display:

Analysis

Refine

Analyze by:

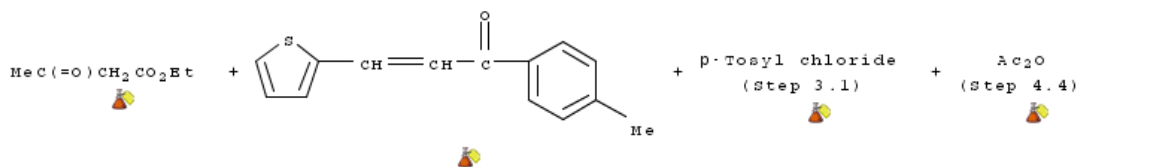
Catalyst

Click bar to view only those reactions within the current answer set

HCl 1

[Show More](#)

1. [Reaction Detail](#) [Link](#)



- 1.1 R:NaOEt, S:Et₂O, 20 h, rt
- 1.2 R:AcOH, rt
- 1.3 R:NaOH, S:H₂O, 6 h, reflux
- 2.1 R:AcONa, R:H₂NOH·HCl, S:H₂O, S:EtOH, 1 h, reflux
- 3.1 R:C₅H₅N, S:C₅H₅N, 0-2°C, 2 h, 0°C
- 4.1 R:NaOEt, S:EtOH, 8 h, reflux
- 4.2 R:AcOH, acidify
- 4.3 R:HCl, S:H₂O
- 4.4 R:AcONa, S:H₂O, 30 min, 70°C
- 5.1 R:POCl₃, S:POCl₃, 3 h, reflux
- 5.2 R:H₂O
- 6.1 R:DDQ, S:Dioxane, 8 h, 105°C

NOTE: 2) stereoselective, 4) stereoselective, in-situ generated reagent(1st stage), 5) chemoselective,
 Reactants: 4, Reagents: 10, Solvents: 6,
 Steps: 6, Stages: 12, Most stages in any one step: 4

[A novel synthetic route for the synthesis of 4,6-diaryl-2-methyl-1,3-benzoxazoles](#)

By Sridharan, V. et al

From Journal of Heterocyclic Chemistry, 42(7), 1321-1330; 2005



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- 5. **4-Nitro-2-phenyloxazole: an electrophilic dienophile for normal Diels-Alder reactions in the oxazole series**
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- 7. **2-(o-Hydroxyaniilido)alkylnitriles vs. 2-[1-(o-hydroxyaniilido)alkyl]benzoxazoles as products from o-aminophenol and cyanohydrins**
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From Journal of Heterocyclic Chemistry (1990), 27(2), 331-4. Language: English, Database: CAPLUS
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- 9. **Cyclization of beta-keto sulfonides. V. New synthetic method for condensed heterocycles: carbazoles, indoles, and benzothienones, based on acid-**

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1. Una búsqueda por “*explore reactions*” empleando como producto una subestructura.
2. Especificación de los enlaces para que se dé la reacción
3. Cambio de la visualización para ver las referencias asociadas a las reacciones que se han recuperado.
 1. Mantener o eliminar reacciones de interés o no.
 2. Recuperar las referencias asociadas a las reacciones.
 3. Cambiar la visualización de estas referencias.