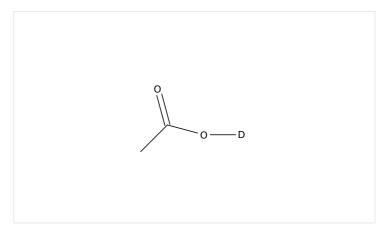
Task History

Initiating Search

February 23, 2025, 9:04 PM

Substances:

Filtered By:



Structure Match: Substructure

Search Tasks

Task		Search Type	View
Returned Substance Results + Filters (2,558)		Substances	View Results
Exported: Retrieved Related Reaction Results + Filters (14)		Reactions	View Results
Filtered By:			
Substance Role:	Reactant, Reagent, Solvent		
Catalyst:	Bromopentacarbonylmanganese, Hexanoic acid, 2-ethyl-, manganese(2+) salt (2:1), Manganese diacetate		
Document Type:	Journal		
Language:	English		

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Steps: 1 Yield: 98%

Steps: 1 Yield: 83%

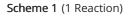


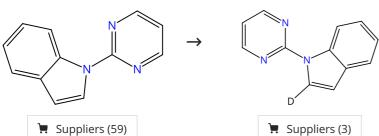
Reactions (10)

View in CAS SciFinder

Steps: 1 Yield: 98%

Steps: 1 Yield: 83%





31-614-CAS-40989757

1.1 Reagents: Sodium acetate, Acetic acid- d₄Catalysts: Bromopentacarbonylmanganese

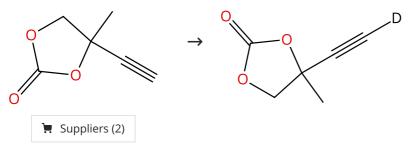
Solvents: 1,4-Dioxane; 36 h, rt

Experimental Protocols

Manganese-Catalyzed Z-Selective Allylation of Indoles with Allenyl Derivatives

By: Vineet Kumar, Doppalapudi; et al Journal of Organic Chemistry (2024), 89(14), 10087-10092.

Scheme 2 (1 Reaction)



31-116-CAS-17886466

1.1 Reagents: Acetic acid-d₄, 4-Methyl-4-[(1 E)-2-[1-(2-pyridinyl)-1 H-indol-2-yl]ethenyl]-1,3-dioxolan-2-one Catalysts: Bromopentacarbonylmanganese Solvents: 1,4-Dioxane; 1 h, 60 °C; 60 °C → rt

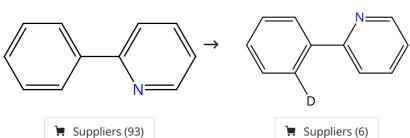
Experimental Protocols

Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation

By: Wang, Hui; et al

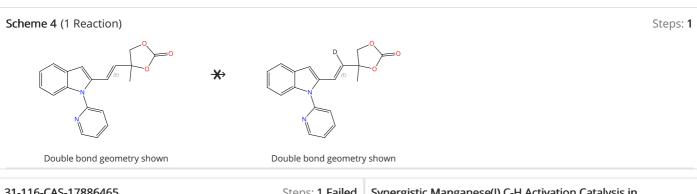
Angewandte Chemie, International Edition (2017), 56(47), 15063-15067.

Scheme 3 (1 Reaction)

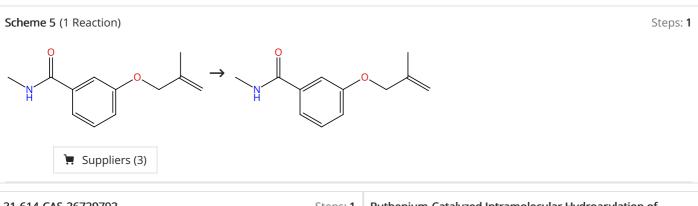


Steps: 1

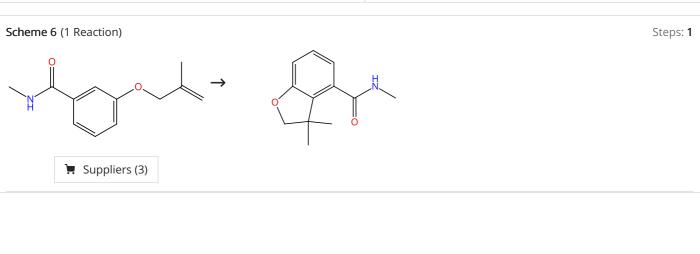
31-614-CAS-42032950 Steps: 1 Mn(I)-Catalyzed Site-Selective C-H Activation: Unlocking Access to 3-Arylated Succinimides from 2-Arylpyridines and Maleimides Solvents: 1,2-Dichloroethane; 12 h, 110 °C Experimental Protocols Mn(I)-Catalyzed Site-Selective C-H Activation: Unlocking Access to 3-Arylated Succinimides from 2-Arylpyridines and Maleimides By: Gola, Ajay Kant; et al Journal of Organic Chemistry (2024), 89(20), 15020-15025.



31-116-CAS-17886465 Steps: 1 Failed Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation By: Wang, Hui; et al Angewandte Chemie, International Edition (2017), 56(47), 15063-15067.



31-614-CAS-26729792		Ruthenium-Catalyzed Intramolecular Hydroarylation of	
1.1 Reagents: Acetic acid- d_4 Catalysts: Manganese diacetate, Silver hexafluoroant Bis(dichloro(η^6 - p -cymene)ruthenium); 6 h, 70 °C	ntimonate, zo	Arenes and Mechanistic Study: Synthesis of Dihydroben zofurans, Indolines, and Chromans By: Rit, Raja K.; et al	
Experimental Protocols		Journal of Organic Chemistry (2016), 81(18), 8552-8560.	



Steps: 1 Yield: 70%

Steps: 1 Yield: 58%

31-614-CAS-28330593

Steps: 1

1.1 **Reagents:** Acetic acid- d_4

Catalysts: Manganese diacetate, Silver hexafluoroantimonate, Bis(dichloro(η^6 - ρ -cymene)ruthenium); 5 h, 70 °C

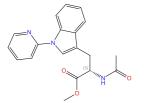
Experimental Protocols

Ruthenium-Catalyzed Intramolecular Hydroarylation of Arenes and Mechanistic Study: Synthesis of Dihydroben zofurans, Indolines, and Chromans

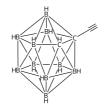
By: Rit, Raja K.; et al

Journal of Organic Chemistry (2016), 81(18), 8552-8560.

Scheme 7 (1 Reaction)



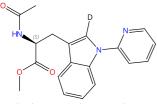
Absolute stereochemistry shown



 \rightarrow



Absolute stereochemistry shown Double bond geometry shown



Absolute stereochemistry shown

31-614-CAS-33753695

.1 Reagents: Acetic acid-d₄

Catalysts: Bromopentacarbonylmanganese Solvents: 1,4-Dioxane; 16 h, 80 °C

Experimental Protocols

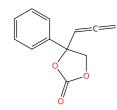
Steps: **1** Yield: **70%**

Selective Labeling of Peptides with o-Carboranes via Manganese(I)-Catalyzed C-H Activation

By: Jei, Becky Bongsuiru; et al

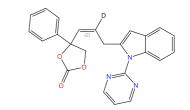
Chemistry - A European Journal (2022), 28(37), e202200811.

Scheme 8 (1 Reaction)



Suppliers (59)

Steps: 1 Yield: 58%



Double bond geometry shown

Suppliers (3)

31-614-CAS-40989760

1.1 **Reagents:** Sodium acetate, Acetic acid-*d*₄ **Catalysts:** Bromopentacarbonylmanganese

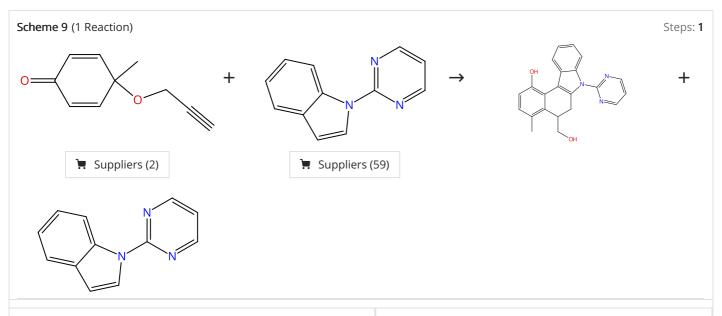
Solvents: 1,4-Dioxane; 2 h, 60 °C

Experimental Protocols

Manganese-Catalyzed Z-Selective Allylation of Indoles with Allenyl Derivatives

By: Vineet Kumar, Doppalapudi; et al

Journal of Organic Chemistry (2024), 89(14), 10087-10092.



31-614-CAS-29705482

1.1 Reagents: Propanoic acid-d, 2,2-dimethyl-

Catalysts: Zinc acetate, Bromopentacarbonylmanganese

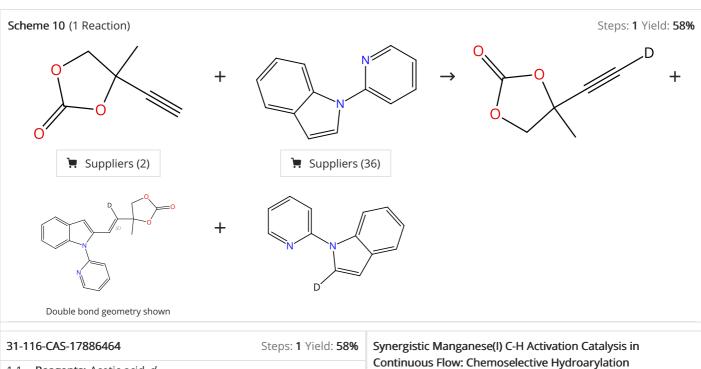
Solvents: 1,2-Dichloroethane; 8 h, 120 °C

Experimental Protocols

Divergent Annulative C-C Coupling of Indoles Initiated by Steps: 1 Manganese-Catalyzed C-H Activation

By: Liu, Bingxian; et al

ACS Catalysis (2018), 8(10), 9463-9470.



Reagents: Acetic acid- d_4

Catalysts: Bromopentacarbonylmanganese Solvents: 1,4-Dioxane; 1 h, 60 °C; 60 °C → rt

Experimental Protocols

Continuous Flow: Chemoselective Hydroarylation

By: Wang, Hui; et al

Angewandte Chemie, International Edition (2017), 56(47), 15063-15067.