

## 文献回答からの関連情報の抽出

- 文献から関連する物質・反応情報を抽出することができます。

Research Topic "phosphine free and suzuki coup..." > references (174) > keep analysis "Author Name" (4)

REFERENCES

Get Substances Get Reactions Get Related Citations Tools

Analyze Refine Categorize Sort by: Accession Number

1 of 4 References Selected

Analyze by: Author Name

1. Pd(quinoline-8-carboxylate)<sub>2</sub> as a Low-Priced, Phosphine-Free Catalyst for Heck and Suzuki Reactions

Quick View Other Sources

Cui Xin 4

Liu Lei 4

Li Juan 2

Fu Yao 1

Qin Tian 1

Wang Jia Rui 1

Wang Na 1

Zhang Zhi Ping 1

Zhou Yuan 1

Ar-X + Ar'-R(B(OH)<sub>2</sub>)  $\xrightarrow[\text{K}_2\text{CO}_3, \text{DMF}, 130^\circ\text{C}, 30\text{h}]{\text{catalyst (0.01 mol\%)}}$  Ar-Ar'

Ar-X + Ar'-R(B(OH)<sub>2</sub>)  $\xrightarrow[\text{K}_3\text{PO}_4, \text{EtOH/H}_2\text{O (1:1)}, 50^\circ\text{C}, 5\text{h}]{\text{catalyst (0.01 mol\%)}}$  Ar-Ar'

TOU = 10,000

catalyst = C1=CC=C2C(=C1)N(C(=O)O)C=C2<sub>2</sub> Pd<sup>0</sup>

N,O-Bidentate compds. were systematically evaluated as ligands for Pd-catalyzed C-C bond-formation reactions (Heck and Suzuki reactions); Pd(quinoline-8-carboxylate)<sub>2</sub> was identified as an efficient, yet still low-priced, phosphine-free catalysts for Suzuki reactions of unactivated aryl bromides with high turnover numbers (ca. 10,000). Pd(quinoline-8-carboxylate)<sub>2</sub> was prepd. by stirring a mixt. of 2 equiv of sodium quinoline-8-carboxylate and 1 equiv of K<sub>2</sub>PdCl<sub>4</sub> in water at room temp. for 10 min; the ppt. was filtered and dried to give a yellow soli...

2. 1,3-Dicarbonyl compounds as phosphine-free ligands for Pd-catalyzed Heck and Suzuki reactions

Quick View Other Sources

By Cui, Xin; Li, Juan; Zhang, Zhi-Ping; Fu, Yao; Liu, Lei; Guo, Qing-Xiang

From Chinese Chemical Letters (2007), 18(6), 625-628. | Language: English, Database: CAPLUS

Some 1,3-dicarbonyl compds. (such as pentane-2,4-dione and 3-oxo-N-phenylbutanamide) were found to constitute highly efficient, low-priced, and phosphine-free ligands for the Pd-catalyzed Heck and Suzuki reactions of aryl bromides and iodides with very high turnover nos. (ca. 10<sup>3</sup>-10<sup>4</sup>).

3. Pd(N,N-dimethyl β-alaninate)<sub>2</sub> as a high-turnover-number, phosphine-free catalyst for the Suzuki reaction

Get Substances Get Reactions

チェックを入れる

観点を指定して、抽出対象物質を限定することもできる

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Retrieve substances for:

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Adverse Effect, including toxicity

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Biological Study

Combinatorial Study

Formation, nonpreparative

Miscellaneous

Occurrence

Preparation

Process

Properties

Prophetics in Patents

Reactant or Reagent

Uses

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Research Topic "phosphine free and suzuki coup..." > references (174) > keep analysis "Author Name" (4) > get reactions (24)

REACTIONS

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Analyze by: Author Name

1 of 24 Reactions Selected

1. View Reaction Detail (96 Link)

2 Steps Hover over any structure for more options.

Step 1: 1

Step 2: 1

Overview

Steps/Stages

1.1 K<sub>2</sub>CO<sub>3</sub>, C115676-38-A, S, DMF, 99 A, 130°C

2.1 K<sub>2</sub>PdCl<sub>4</sub>, C115676-38-B, S, H<sub>2</sub>O, S, 50°C, 3 h, 50°C

Notes

1) solvent

2) Solvents

References

Pd(quinoline-8-carboxylate)<sub>2</sub>

Quick View

By Cui, Xin; Li, Juan; Zhang, Zhi-Ping; Fu, Yao; Liu, Lei; Guo, Qing-Xiang

From Journal of Organic Chemistry (2007), 72(14), 9342-9345.

この論文で扱われている反応の集合

Research Topic "phosphine free and suzuki coup..." > references (174) > keep analysis "Author Name" (4) > get substances (82)

SUBSTANCES

Get Substances Get Reactions Get Commercial Sources Tools

Analyze by: CAS Registry Number

1 of 82 Substances Selected

1. 1000395-60-7

2. 1000395-59-4

3. 1000395-58-3

4. 1000395-57-2

5. 934215-85-7

6. 898237-87-1

C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>, Pd

Palladium, bis(2-quinolinecarboxylate(2-)-κ<sup>2</sup>-O,N,4-O), [Pd(4-)]

C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>, Pd

β-Alanine, Ar-methoxy-Ar-methyl-

Key Physical Properties

C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>, Cl H

β-Alanine, Ar-methoxy-Ar-methyl-, hydrochloride (1:1)

C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>, Cl H

β-Alanine, Ar-methoxy-Ar-methyl-, hydrochloride (1:1)

C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>, Pd

Palladium, bis(N,N-dimethyl-β-alaninate(κ<sup>2</sup>-O,N,4-O))

C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>, CH

Propanamide, 2-(dimethylamino)-, hydrochloride (1:1)

この論文で扱われている物質の集合

物質集合作成・反応集合作成は最大 1,000 回答