

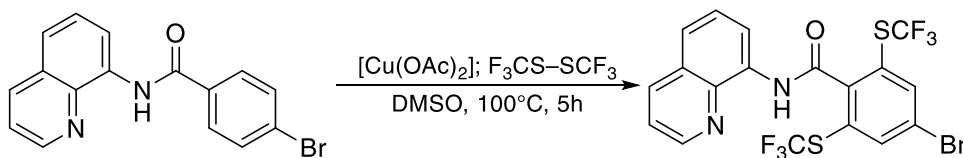
Catalog # 93-2988 Copper(II) acetate, anhydrous, min. 97%



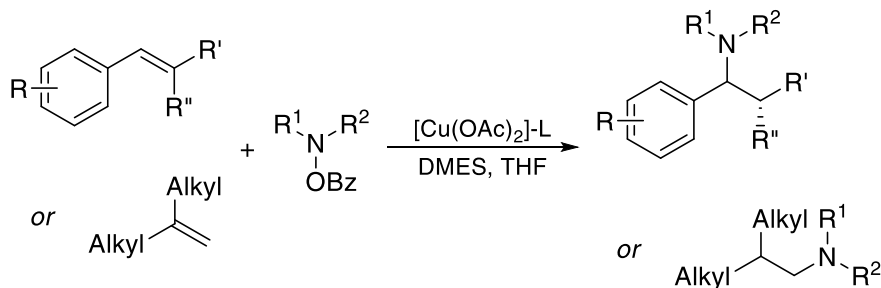
Catalysis Applications

Technical Notes:

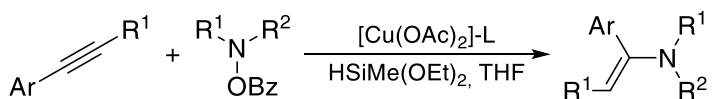
1. Catalyst for sulfenylation of benzoic acid derivative β -C-H bonds and benzylamine derivative γ -C-H bonds
2. Used in enantio- and regioselective CuH-catalyzed hydroamination of alkenes
3. Used in Cu-catalyzed selective hydroamination reactions of alkynes
4. Catalyst for asymmetric hydroamination of unactivated internal olefins to aliphatic amines
5. Catalyst for asymmetric addition of olefin-derived nucleophiles to ketones
6. Catalyst for enantioselective stereodivergent synthesis of amino alcohols
7. Used in highly regio- and enantioselective Cu-catalyzed reductive hydroxymethylation of styrenes and 1,3-dienes with CO_2
8. Used in enantioselective synthesis of trisubstituted allenyl-B(pin) Compounds by phosphine/Cu-catalyzed 1,3-enyne hydroboration
9. Catalyst used in tandem ring-opening/cyclization reactions of cyclopropanols with aryldiazonium salts to generate *N*-arylpiperazines
10. Used in site-selective Cu-catalyzed azidation of benzylic C-H bonds
11. Catalyst used in proton-directed selective hydroxymethylation of alkynes with CO_2



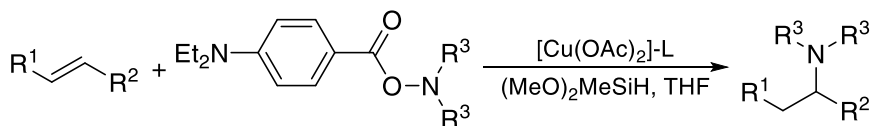
Tech Note (1)
Ref. (1)



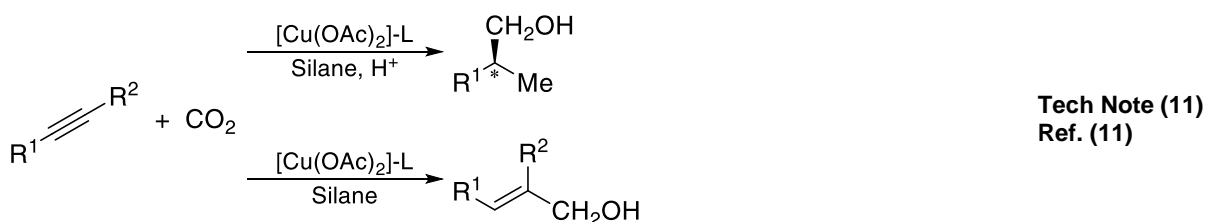
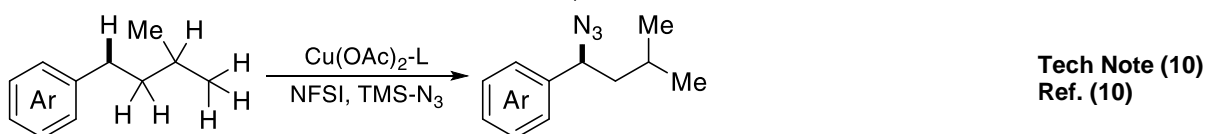
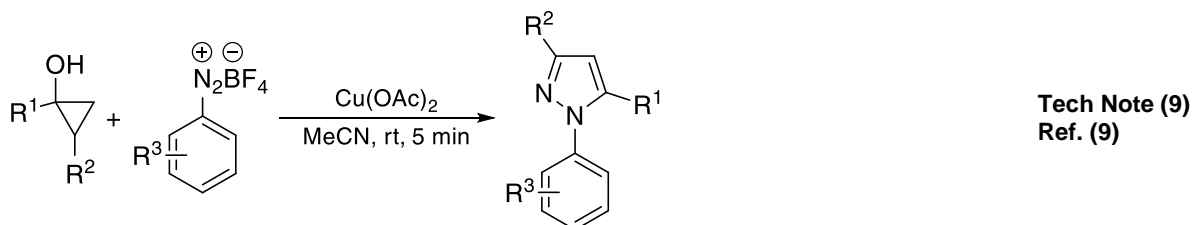
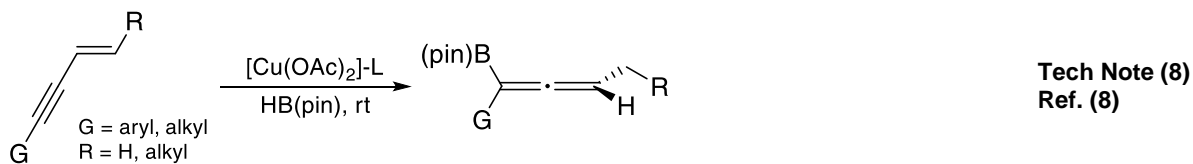
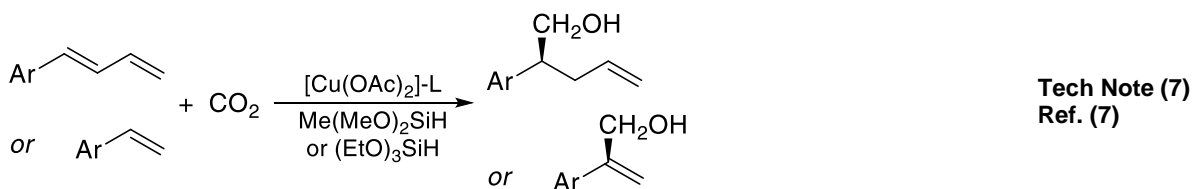
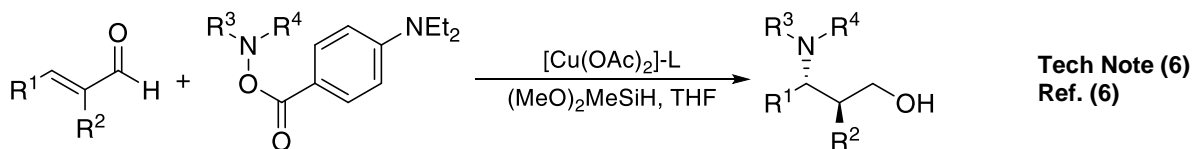
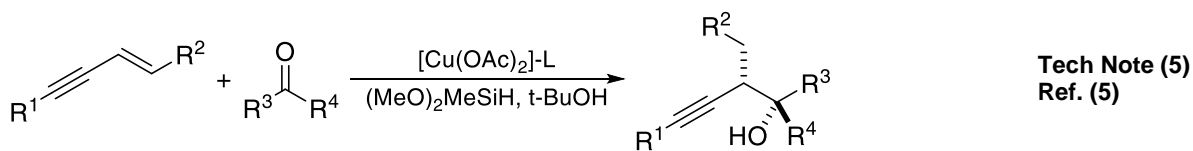
Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)



Tech Note (4)
Ref. (4)



References:

1. [J. Am. Chem. Soc. 2012, 134, 18237](#)
2. [J. Am. Chem. Soc. 2013, 135, 15746](#)
3. [Nat. Chem. 2015, 7, 38](#)
4. [Science 2015, 349, 62](#)
5. [Science 2016, 353, 144](#)
6. [Nature 2016, 532, 353](#)
7. [J. Am. Chem. Soc. 2017, 139, 17011](#)
8. [J. Am. Chem. Soc. 2018, 140, 2643](#)
9. [Chem. Commun. 2020, 56, 2202](#)
10. [J. Am. Chem. Soc. 2020, 142, 11388](#)

11. [Angew. Chem. Int. Ed. 2021, 60, 3984](#)

CVD/ALD Applications

Thermal Behavior:

- Boiling point: 240°C

Technical Notes:

1. ALD precursor for thin copper film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Cu	PE-ALD	138°C	1.7-2.1 Torr	^P LH ₂	85°C	1
Cu ₂ O	ALD	175 or 185°C	7.5 Torr	H ₂ O	180-220°C	2

References:

1. [ECS Transactions, 2007, 11, 67](#)
2. [ACS Omega 2019, 4, 11205](#)