

Catalog #	D299631	Nickel(II) chloride, dimethoxyethane adduct, min. 97%

Technical Notes:

1. As a catalyst to synthesize enantioenriched benzylic boronic esters via the borylation of racemic benzylic chloride.¹
2. Catalyst for the regioselective acylation reaction of β -ketoesters by photoactivation by visible light in the presence of Lewis acid or base catalysts.²
3. Promotes the copper catalyzed reductive trifluoromethylation of alkyl iodides with Togni's reagent.³

<p>racemic</p> <p>1.4 equiv</p> <p>10% 93-2801, 12% pybox ligand</p> <p>1.4 equiv KOtBu 1.5 equiv PhCH₂CH₂OH DME/CPME, r.t.</p> <p>Pybox = 07-7212, 07-1367</p>	<p>Tech Note (1) Ref. (1)</p>
<p>C-acylation</p> <p>O-acylation</p> <p>Lewis acid</p> <p>Lewis base</p> <p>visible light</p> <p>visible light</p> <p>33 examples, 60-99% yields</p> <p>14 examples, 67-92% yields</p>	<p>Tech Note (2) Ref. (2)</p>
<p>$R^2-CH_2-CH(R^1)-I$</p> <p>1.2 equiv</p> <p>CuCl(cat) 93-2801 (cat) bathophenanthroline</p> <p>$B_2(nep)_3/LiOMe$ DMF</p>	<p>Tech Note (3) Ref. (3)</p>

References:

1. *Angew. Chemie International Edition*, **2018**, 57 (44), 14529-14532.
2. *Org. Lett.*, **2018**, 20(22), 7278-7282.
3. *Org. Lett.*, **2018**, 20(15), 4677-4680.