

## Pivalophenone

## Chemical Properties

CAS No. :	938-16-9
Formula:	C <sub>11</sub> H <sub>14</sub> O
Molecular Weight:	162.228
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Pivalophenone is an agent of biochemical.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1641 mL	30.8204 mL	61.6409 mL
5 mM	1.2328 mL	6.1641 mL	12.3282 mL
10 mM	0.6164 mL	3.082 mL	6.1641 mL
50 mM	0.1233 mL	0.6164 mL	1.2328 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Xu W, Yoshikai N. Cobalt-catalyzed directed C-H alkenylation of pivalophenone N-H imine with alkenyl phosphates. *Beilstein J Org Chem*. 2018 Mar 28;14:709-715. doi: 10.3762/bjoc.14.60. eCollection 2018. PubMed PMID: 29719569; PubMed Central PMCID: PMC5905286.

Xu W, Yoshikai N. Pivalophenone imine as a benzonitrile surrogate for directed C-H bond functionalization. *Chem Sci*. 2017 Aug 1;8(8):5299-5304. doi: 10.1039/c7sc01732d. Epub 2017 May 30. PubMed PMID: 28970910; PubMed Central PMCID: PMC5607892.

Ueno S, Chatani N, Kakiuchi F. Regioselective alkenylation of aromatic ketones with alkenylboronates using a RuH<sub>2</sub>(CO)(PPh<sub>3</sub>)<sub>3</sub> catalyst via carbon-hydrogen bond cleavage. *J Org Chem*. 2007 Apr 27;72(9):3600-2. Epub 2007 Apr 4. PubMed PMID: 17407360.

Ueno S, Mizushima E, Chatani N, Kakiuchi F. Direct observation of the oxidative addition of the aryl carbon-oxygen bond to a ruthenium complex and consideration of the relative reactivity between aryl carbon-oxygen and aryl carbon-hydrogen bonds. *J Am Chem Soc*. 2006 Dec 27;128(51):16516-7. PubMed PMID: 17177397.

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