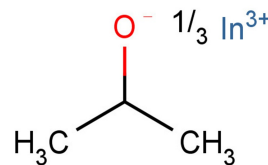


Indium(III) isopropoxide

Chemical Properties

CAS No.:	38218-24-5
Formula:	C ₃ H ₈ O. _{1/3} In
Molecular Weight:	97.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Indium(III) Isopropoxide also can be used as metal precursor. Indium(III) Isopropoxide is an organo-metallic compound. Indium(III) Isopropoxide used as a hydrogen transfer catalyst for conversion of benzylic alcohols into aldehydes or ketones via Oppenauer oxidation.
Targets(IC ₅₀)	Others: None
In vitro	Indium(III) isopropoxide as an Oppenaueroxidation catalyst, and the conversion of primary or secondary alcohols into the corresponding aldehydes or ketones was promoted at room temperature using pivalaldehyde as an oxidant.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	10.271 mL	51.356 mL	102.712 mL
5 mM	2.054 mL	10.271 mL	20.542 mL
10 mM	1.027 mL	5.136 mL	10.271 mL
50 mM	0.205 mL	1.027 mL	2.054 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Yohei Ogiwara, et al. Indium(III) Isopropoxide as a Hydrogen Transfer Catalyst for Conversion of Benzylic Alcohols into Aldehydes or Ketones via Oppenauer Oxidation. *Synthesis*. 2016, 48(23): 4143-4148.
2. Daniela Caruntu, et al. One-Step Synthesis of Nearly Monodisperse, Variable-Shaped In₂O₃ Nanocrystals in Long Chain Alcohol Solutions. *The Journal of Physical Chemistry C*. March 2010, 114(11):4875-4886.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481