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**Product Data Sheet**

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Product Name: Indium(III) isopropoxide

Cat. No.: GC38798

**Chemical Properties**

Cas. No. 38218-24-5

SMILES CC([O-])C.[In+3].[1/3]Formula  $C_3H_8O_{1/3}In$ 

M.Wt 97.36

Solubility DMSO : < 1 mg/mL (insoluble or slightly soluble); H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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. Indium(III) Isopropoxide also can be used as metal precursor[1][2].

Indium(III) isopropoxide as an Oppenauer?oxidation 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[1].

[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 In<sub>2</sub>O<sub>3</sub> Nanocrystals in Long Chain Alcohol Solutions. *The Journal of Physical Chemistry C*. March 2010, 114(11):4875-4886.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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