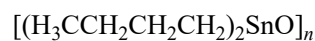




>>Entry Name: Dibutyloxostannane, 9CI

Synonym(s): Dibutyltin oxide. Dibutyloxotin

CAS Registry Number: 818-08-6



Molecular Formula: $\text{C}_8\text{H}_{18}\text{OSn}$

Molecular Weight: 248.94

Accurate Mass: 248.037965

Percentage Composition: C 38.60%; H 7.29%; O 6.43%; Sn 47.69%

General Statement: Polymeric

Source/Synthesis: Synth. by alk. hydrol. of Bu_2SnCl_2

Use/Importance: Catalyst for esterification, transesterification, especially to prepare macrolides, e.g. by lactonisation of ω -hydroxy carboxylic acids; reagent for selective oxidn. of alcohols, glycols used in mono *O*-acylation of 1,2-, 1,3- and 1,4-diols via dibutylstannylenes; used in alcohol alkylation via ROSnBu_3 ; with Bu^tOOH , reagent for epoxidation of allylic alcohols; converts primary thioamides $\rightarrow$ nitriles

Physical Description: Infusible solid

Hazard & Toxicity: Autoignition temp. 280° . LD_{50} (rat,orl) 487 mg/kg

Aldrich: 18308-3

Fluka: 34980

Rare Chemicals Library: S56618-7

Other: Gelest SND 3350

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