



## TIB KAT 330

### Description

*TIB KAT 330* (Dimethyltin Dioleate), also known as Dimethylbis(oleylol)stannane, is a methyl-based Sn (IV) organotin that finds use mainly as an

homogenous catalyst for polyurethanes and silicones. *TIB KAT 330* is known for its relatively high reactivity, owing mainly to the presence of the reduced steric methyl group and the related high tin content. *TIB KAT 330*, is characterized by a relatively low viscosity resulting in efficient use and dosing across a variety of specialty chemical applications..

*TIB KAT 330* is used primarily as a catalyst for polyurethanes. *TIB KAT 330* can be used in formulations using aromatic isocyanates and thus is primarily used in [adhesive](#), [elastomer](#), and rigid [foams](#) applications.

Typical of most metal-based catalysts, *TIB KAT 330*, like most tin catalysts, will preferentially catalyze the urethane reaction (NCO/OH or gelation reaction), with minimal catalysis of the water reaction. Methyl organotins are used for the relatively high reactivity compared to butyl- and octyl-organotins. Steric effects and compatibility with the raw materials on reactivity can be enhanced by the inclusion of the ideal ligand. *TIB KAT 330* includes a ligand based on oleic acid which will have an effect of slowing down the reactivity compared to the more reactive *TIB KAT 300*.

*TIB KAT 330* is used in concentrations between 0.01 – 1 wt.-%.

### Product Data

Chemical Name	Dimethyltin dioleate
CAS	3865-34-7
Molecular weight	711.69 g/mol
Aggregation state	liquid

### Specification

Tin content	16.0 – 17.5 %
Colour (Gardner)	≤ 5.0
Appearance	clear



## TIB KAT 330

### Storage

*TIB KAT 330* can be stored at least one year if kept closed in the original packaging; sensitive to frost. The container should be closed tightly after each use to maximize shelf life. Characteristic of most Sn (IV) organotins, the primary cause of instability would be hydrolysis. Hydrolysis results in the formation of tin hydroxide insolubles leading to deactivation of *TIB KAT 330*.

### Packaging

18 kg pail, 200 kg drum,  
other packaging size upon request.

### Packaging USA

44 lb (20 kg) plastic pail,  
440 lb (200 kg) drum,  
other packaging size upon request.

### Special advice for Security

Information concerning

- ❖ classification and labelling according to the regulations governing transport and hazardous chemicals
- ❖ protective measures for storage and handling
- ❖ safety measures in case of accident and fire
- ❖ toxicity and ecological effects

is given in our material safety data sheet.

**Customs Tariff No.: 2931 9000**



## TIB KAT 330

### Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value (Mannheim)	Value (Pittsburgh)	Unit
<b>Sum of PCFs (Cradle-to-gate)</b>	-	-	kg CO <sub>2</sub> eq/kg
<b>PCF excluding biogenic emissions</b>	-	-	kg CO <sub>2</sub> eq/kg
<b>Biogenic emissions</b>	-	-	kg CO <sub>2</sub> eq/kg

The Product Carbon Footprint (PCF) covers one of several environmental impacts of chemical products. The PCF does not allow comprehensive conclusions about the overall environmental performance of the product. Comparisons of PCFs from different data sources are only possible to a limited extent. The PCF presented here applies to the product sold by TIB Chemicals.

The PCF is based on data of the accounting year 2024 and follows the calculation method outlined in ISO 14067, the TfS Guideline, the BASF Guideline, the cradle-to-gate system boundaries, the declared unit kg CO<sub>2</sub>e/kg product (excl. packaging) and the sum of different emissions from Scope 1, 2 and 3 (raw material and preliminary products (e.g. secondary data), transportation of purchased products and inbound logistics, as well as company- and site-specific processes including primary energy consumption, electricity and heat consumption). The emissions from biogenic carbon and land-use changes are considered as far as data sources are available.