



## TIB KAT 232

### Description

*TIB KAT 232* (Dioctyltinoxide) is an amorphous solid dialkyl organotin typically used as an esterification catalyst. Commonly referred to as DOTO, *TIB KAT 232* is characterized by a high tin content (~ 32%) and oxide ligand which imparts both high reactivity and high-temperature stability. *TIB KAT 232* is supplied as a solid and can be supplied as a stable liquid with suitable diluents such as plasticizers and silanes.

*TIB KAT 232* is primarily utilized in the following applications:

- ❖ esterification and transesterification reactions
- ❖ polycondensation reactions
- ❖ manufacture of polyester and alkyd resins

The toxicological properties of *TIB KAT 232* are better compared to its dibutyltin counterpart *TIB KAT 248*. It is typically used at concentrations ranging from 0.01 – 0.5 wt.-% depending on the application.

### Product Data

Chemical name	Dioctyltinoxide (DOTO)
Molecular weight	361.1 g/mol
CAS No.	870-08-6
Appearance	Solid powder
Decomposition point	> 230 °C
Colour	practically insoluble in water and organic solvents

### Specification

Tin content	32.0 – 34.0 %
Content of volatiles	≤ 1.0 %
Chloride content	≤ 0.3 %

### Storage

*TIB KAT 232* can be stored for at least one year if kept closed in the original packaging.

### Packaging

25 kg pail, other packaging size upon request.

### Packaging US

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 232

### 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>	13,2	-	kg CO <sub>2</sub> eq/kg
<b>PCF excluding biogenic emissions</b>	13,2	-	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.