



TIB KAT 340

Description

TIB KAT 340 (Dimethyltin dilauryl mercaptide) also known as bis (dodecylthio) dimethylstannane, is a methyl-based Sn (IV) organotin that finds use mainly as an homogenous catalyst for polyurethanes and silicones. *TIB KAT 340* is known for its relatively high reactivity, owing mainly to the presence of the reduced steric methyl group and the related high tin content. Compared to standard metal carboxylates, *TIB KAT 340* imparts more controlled reactivity due to the presence of a ligand with sulfur functionality.

TIB KAT 340 is used in concentrations between 0.01 – 1 wt.-%.

Product Data

Chemical Name	Dimethyltin dilauryl mercaptide / Bis (dodecylthio) dimethylstannane
CAS	51287-84-4
Molecular weight	551.63 g/mol
Appearance	clear liquid

Specification

Total tin content	19,0 – 22,0 wt.-%
Colour (Gardner)	≤ 2

Storage

TIB KAT 340 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 340*.

Packaging

25 kg pails, 200 kg drum, 1000 kg IBC, other packaging size upon request.

Packaging USA

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 340

Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value (Mannheim)	Value (Pittsburgh)	Unit
Sum of PCFs (Cradle-to-gate)	-	-	kg CO ₂ eq/kg
PCF excluding biogenic emissions	-	-	kg CO ₂ eq/kg
Biogenic emissions	-	-	kg CO ₂ 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 CO₂e/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.