







TIB KAT 125

Description

TIB KAT 125 (Stannous Neodecanoate), also commonly known as Tin bis-(neodecanoate) or Tin Neodecanoate, is an inorganic tin carboxylate with a moderate metal content. This Stannous Neodecanoate catalyst is typically supplied in a neat form with excess free acid typically in higher concentrations when compared to *TIB KAT 129* (Stannous Octoate).

TIB KAT 125 can be used

-  for esterification in oleochemistry
-  for catalysis of polyurethane systems
-  for curing of silicone resins and silanes
-  for polymerization of lactones to biodegradable polymers

TIB KAT 125 is a liquid catalyst, which distributes well in the reactant. Furthermore, *TIB KAT 125* makes an easy proportioning during the running reaction possible.

TIB KAT 125 can be added to the reactants either as it is or blended with alcohols. In esterification, it can be used at temperatures above 160 °C.

TIB KAT 125 is used in concentrations between 0.01 - 0.20 %.

The removal of *TIB KAT 125* from esters is apart from chemical methods, as e. g. by hydrolysis or oxidation, also possible by adsorption with *TIB TINEX*-products.

Product Data

Chemical Name	Stannous Neodecanoate
CAS No.	49556-16-3
Molecular weight	461.23 g/mol
State of aggregation	liquid

Specification

Stannous tin	20.0 – 23.0 %
Viscosity (20°C)	≤ 5000 mPa.s
Turbidity (NTU)	≤ 30
Color (Gardner)	Max 8

Storage

TIB KAT 125 can be stored for at least one year if kept closed in the original packaging. The container should be closed tightly after each use to maximize shelf life. Characteristic of most inorganic tins (Sn(II)), the primary cause of instability would be oxidation.

Packaging

Packaging size upon request.

Packaging USA

55 lb (25 kg) plastic pail,

485 lb (220 kg) steel drum

other packaging size upon request.



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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.: 2915 9070



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Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value (Mannheim)	Value (Pittsburgh)	Unit
Sum of PCFs (Cradle-to-gate)	6,51	-	kg CO ₂ eq/kg
PCF excluding biogenic emissions	6,50	-	kg CO ₂ eq/kg
Biogenic emissions	7,93E-02	-	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.