







TIB KAT 229

Description

TIB KAT 229 (Diocetyl tin Diacetate) is an octyl-based organotin with a carboxylate functionality. *TIB KAT 229* is a highly reactive neat liquid octyl tin chemical, given its high tin content (28%) and related small ligand. *TIB KAT 229* contains the highest concentration of tin for liquid-based octyl tin products. As an octyl tin, *TIB KAT 229* is an ideal candidate as an alternative for the more regulated DBTA / *TIB KAT 233* and DBTL / *TIB KAT 218*, being that the latter is identified as a Substance of Very High Concern (SVHC) in the EU.

TIB KAT 229 can be used in a wide spectrum of applications such as:

-  catalyst for synthesis of polyurethane-systems
-  catalyst for transesterification
-  catalyst for polycondensation reactions of RTV silicon resins and of silanes
-  catalyst for the production of raw material for polycarbonates

The reactivity and raw material compatibility of dioctyltin diacetate should be somewhat similar to its butyl tin analogue, *TIB KAT 233*. Due to the larger alkyl group and steric effects and lower active tin metal content (28% vs 33%), *TIB KAT 229* is expected to be somewhat slower in reactivity compared to *TIB KAT 233*, although this would be highly formulation-specific.

TIB KAT 229 is slightly sensitive to moisture.

Product Data

Chemical name	Diocetyl tin diacetate
CAS No	17586-94-6
Molecular weight	463.01 g/mol
State of aggregation	clear liquid at RT / 25°C

Specification

Tin content	≥ 25.0 %
Colour (Gardner)	≤ 5
Refractive index (20°C)	1.4650 – 1.4780

Storage

TIB KAT 229 can be stored for at least one year if kept closed in the original packaging. Sensitive to frost. Characteristic of most Sn (IV) organotins, the primary cause of instability would be hydrolysis. Hydrolysis results in the formation of tin oxide insolubles leading to deactivation of *TIB KAT 229*.

Packaging

20 kg pails, 50 kg pails, 200 kg drum,
other packaging size upon request.

Packaging USA

44 lb (20 kg) pails,
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.: 2931 9000



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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)	11,6	-	kg CO ₂ eq/kg
PCF excluding biogenic emissions	11,6	-	kg CO ₂ eq/kg
Biogenic emissions	7,93 E -03	-	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.