



TIB KAT 616

Description

TIB KAT 616 (Zinc Neodecanoate) is a commonly used zinc catalyst for polyurethane applications. *TIB KAT 616* utilizes neodecanoic acid as the ligand source, and enhances compatibility in a wide range of polyurethane formulations. Related catalysts include *TIB KAT 620*, a zinc carboxylate based on an octanoic acid-derived ligand. Compared to organotin catalysts *TIB KAT 616* shows a lower activity offering longer pot life in 2p systems. *TIB KAT 616* offers lower viscosity versus *TIB KAT 617* due to the formulation with an aliphatic hydrocarbon.

TIB KAT 616 is especially useful in curing reactions at elevated temperatures and in curing systems based on aromatic isocyanates.

TIB KAT 616 shows higher reactivity and better color stability compared to *TIB KAT 620*.

TIB KAT 616 should be used in concentrations between 0.02 – 1.0 wt.-% in relation to the total formulation.

TIB KAT 616 and its components are also presented on a wide range of international regulatory lists, including US TSCA, EU REACH and Canadian DSL, making it a great choice for multinational formula development. We also offer this product blended with bismuth, such as *TIB KAT 708*, *TIB KAT 715* or *TIB KAT 718*.

Product Data

Chemical Name	Zinc neodecanoate formulation
CAS No.	27253-29-8
Molecular weight	407.92 g/mol
State of aggregation	clear liquid

Specification

Zinc content	15.0 – 17.0 %
Color (Gardner)	≤ 4.0
Refractive index (20°C)	1.450 -1.465

Storage

TIB KAT 616 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 USA

44 lb (20 kg) pails

485 lb (220 kg) drums,

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.: 3815 9090



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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)	5,37	-	kg CO ₂ eq/kg
PCF excluding biogenic emissions	5,36	-	kg CO ₂ eq/kg
Biogenic emissions	0,01	-	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.