

# BIS(TRICHLOROMETHYL)CARBONATE

Technical Grade

## Technical Data Sheet

Date of edition: 29/01/2024 Edition no.: 1



### Product Data

<b>Chemical Name</b>	Bis(trichloromethyl) carbonate IUPAC name: Triphosgene
<b>Molecular Weight</b>	296,75
<b>REACH registration nr.</b>	01-2120973039-47-0000
<b>Chemical formula</b>	C <sub>3</sub> Cl <sub>6</sub> O <sub>3</sub>
<b>C.A.S. number</b>	32315-10-9
<b>UN number</b>	2928

### Applications

- Triphosgene is a stable, crystalline solid which has proved to be a useful substitute for phosgene. It is safer and more convenient to handle, transport and store. Exact amounts are weighed easily.
- Triphosgene is used as a reagent in organic synthesis. Alcohols are converted to carbonates. Primary and secondary amines are converted to ureas and isocyanates. Triphosgene has been used to synthesize chlorides.
- Furthermore, applications of triphosgene in complex molecules synthesis, polymer synthesis, and other techniques, such as flow chemistry and solid phase synthesis.

### Specification\*

Test	Requirements
Appearance (visual)	White crystals
Assay	min. 99,5 %, m/m
Melting point (°C)	79-81
Loss on drying	max. 0,5 %, m/m
Acid value	max. 0,1 %, m/m %

### Hazard classification and safety measures

Triphosgene is classified in ADR class 6.1 (toxic substances) and has to be transported and handled accordingly.

While handling triphosgene, wearing protective glasses and a face shield is recommended. For skin protection, wear protective clothing and protective gloves.

For more information, please take a look at our safety data sheets.

### Packing and storage

In 25-kg drums that comply with all ADR regulations. Has to be stored in original, closed, and appropriately labelled container in a cool, dry, well-ventilated and fire-safe place. Storage temperature should not exceed 30 °C. Protect from water and moisture. Incompatible Materials: Acids, Strong oxidizing agents, Strong bases, Amines.

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