

tert-Butyldimethylsilyl Chloride

Moisture-sensitive organosilicon protecting reagent for controlled organic synthesis.

CAS No. 18162-48-6	EC / List No. 242-042-4	Transport Class 4.1 — Flammable solid; subsidiary risk 8
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Product Information

Moisture-sensitive organosilicon protecting reagent for controlled organic synthesis.

Specifications

Parameter	Specification
Appearance	White crystals
Purity, GC	≥99.0 %
tert-Butyldimethylsilanol	≤0.5 %

Grade-specific supply limits. The agreed specification and batch COA govern delivery.

Typical Properties

Property	Typical Value
Molecular formula	C ₆ H ₁₅ ClSi
Molecular weight	150.72 g/mol
Melting interval, typical	85–91°C

Applications

Hydroxyl-group protection: Reagent for selected alcohol and phenol protection routes.

Carbohydrate and fine-chemical synthesis: Protecting reagent for qualified multifunctional-substrate and fine-chemical intermediate development.

Organosilicon intermediate development: Building reagent for technically supervised organosilicon synthesis.

Packaging / Storage

Item	Information
Packing	25 kg drums
Storage	Keep tightly sealed in dry compatible containers in a cool, ventilated area. Exclude water and moist air; segregate from bases, alcohols, amines, strong oxidizers and incompatible metals. Protect from heat and ignition sources.
Handling	Use dry dispensing with effective local extraction and ignition-controlled equipment. Avoid dust and all contact; wear chemical-resistant gloves, protective clothing, goggles and face protection. Keep water out of the material and establish emergency washing facilities nearby.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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