

浙江中天氟硅材料有限公司
Zhejiang Zhongtian fluorine silicon material Co., Ltd.

三甲基一氯硅烷

产品简介

- 商品名称：三甲基一氯硅烷
- 分子量：108.66
- 分子式：(CH₃)₃SiCl

$$\begin{array}{c}
 \text{CH}_3 \\
 | \\
 \text{CH}_3\text{—Si—CH}_3 \\
 | \\
 \text{Cl}
 \end{array}$$

- 产品标准：企标Q/ZTFG 004-2017《三甲基一氯硅烷》
- 产品外观：无色透明，无机械杂质，具有刺激性气味的液体，易水解。
- 物性数据：PH值：—— 熔点（℃）：-40
 相对密度（水=1）：0.85 沸点（℃）：57.6
 相对密度（空气=1）：3.7 饱和蒸气压（KPa）：13.33/25℃
 引燃温度（℃）：无资料 闪点（℃）：-28
 爆炸上限[%（V/V）]：无资料 爆炸下限[%（V/V）]：1.8
 溶解性：溶于苯、甲醇。
- 技术指标：

项 目	指 标	
	优等品	合格品
三甲基一氯硅烷w/% ≥	99.5	99.2
四氯化硅w/% ≤	0.05	0.10
一甲基三氯硅烷w/% ≤	0.05	0.10

- 用途：用于硅酮制造的中间体、憎水剂、分析用试剂。
- 危险特性：遇明火、高热或氧化剂接触，有引起燃烧爆炸的危险。受热或遇水分解放热，放出有毒的腐蚀性烟气。若遇高热，容器内压增大，有开裂和爆炸的危险。有腐蚀性。
- 稳定性：稳定
- 避免接触条件：潮湿空气
- 禁配物：强氧化剂、强碱、强酸、水
- 燃烧分解产物：一氧化碳、二氧化碳、氧化硅、氯化氢
- 包装与贮运：本产品采用200L铁桶包装。储存于阴凉、通风仓库内。远离火种、热源。仓温不宜超过30℃。防止阳光直射。包装要求密封，不可与空气接触。应与氧化剂、酸类、碱类分开存放。储存间内的照明、通风等设施应采用防爆型，开关设在仓外。配备相应品种和数量的消防器材。罐储时要有防火防爆技术措施。禁止使用易产生火花的机械设备和工具。定期检查是否有泄漏现象。在氮气中操作处置。搬运时轻装轻卸，防止包装及容器损坏。运输按规定路线行驶，中途不得停驶。

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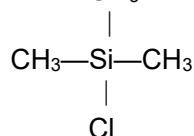
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Technical Data Sheet (M3)

● Name: Trimethylchlorosilane (M3)

● Molecular Weight: 108.66

Structural formula: CH₃



● Product standard: Enterprise Standard 004-201 Q/ZTFG 《Trimethylchlorosilane》

● Appearance: Colorless transparent liquid with sharp odour, without mechanical impurity, hydrolysable with air moisture.

PH Value: —

Melt Point (°C): -40

Specific Gravity (Water-s=1): 0.85

Boiling Point (°C): 57.6

Vapor Density (Air-s=1): 3.7

Vapor Pressure (KPa): 13.33/25°C

Ignition Temperature (°C): No Data

Flash Point (°C): -28

Upper Limit of Explosion [% (V/V)]: No Data Lower Limit of Explosion [% (V/V)]: 1.8

Dis-solubility: soluble in benzene, ether etc.

● Technical indexes

Item	Indexes	
	Premium grade	First grade
Mass Fraction of Trimethylchlorosilane /% ≥	99.5	99.2
Mass Fraction of Dimethyldichlorosilane /% ≤	0.05	0.1
Silicon Tetrachloride /% ≤	0.05	0.1

● Applications: Intermediate, Hydrophobic Agent and Reagent For analysis Of Silicone

● Hazard characteristics: Inflammation and explosion will arise when it meets naked fire, high heat or oxidant. And it will decompose with exothermic heat and poisonous caustic smoke when it is heated or encounters water. Interior pressure in the vessel increases leading to the danger of splitting and explosion when it meets high heat. It is of causticity.

● **Stability:** Stable

● **Condition to avoid being contacted:** Humid air

● **Prohibition:** Strong oxidant, alkali, Water, Strong acid.

● **Decomposition products:** Carbon monoxide, carbon dioxide, silicon oxide, hydrogen chloride

● **Package storage and transportation:** It should be packed in 200L iron bucket and be stored in a shady, cool and ventilated storehouse. Keep away from fire and heat. Warehouse temperature should not be more than 30°C. Packaged products should avoid direct sunlight. The package should be sealed and not in contact with air. Should be stored separately from oxidant, acid and alkali. The lighting ventilation and other facilities in the storage room shall be explosion-proof, and the switch shall be located outside the warehouse. Equipped with the corresponding varieties and quantities of fire equipment. Fire and explosion protection measures shall be taken during tank storage. Do not use mechanical equipment or tools that are likely to produce sparks. Check regularly for leaks. Operate in nitrogen. Handle with care to prevent damage of package and container. Transportation shall be carried on the prescribed route and shall not be stopped on the way