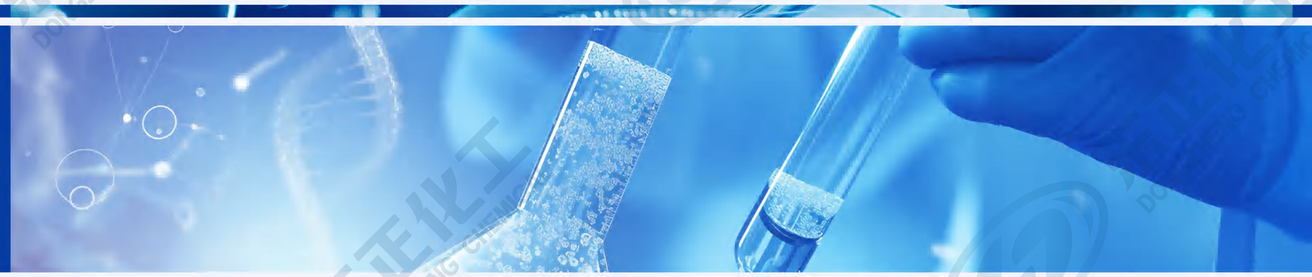
东正化工
DONGZHENG CHEMICAL

无水氯化铬
Chromium(III) chloride





产品信息

【分子式】$CrCl_3$

【分子量】158.35

【CAS号】10025-73-7

【外　观】紫色单斜晶体或淡紫晶粉末。



Product Information

【Molecular Formula】$CrCl_3$

【Molecular Weight】158.35

【CAS Number】10025-73-7

【Appearance】Purple monoclinic crystals or lilac crystals powder.

产品性质

● 物理化学性质

无味，无毒，常温常压下稳定。不溶于水、乙醇、丙酮、甲醇和乙醚，微溶于热水。

● 包装

克级包装采用PE（100ML）瓶装；公斤级采用铝塑袋包装。
20袋汇集成一个纸桶包装；（可根据客户需求定制）

● 存储

防潮，置于阴凉干燥处。

技术指标

质量指标		指 标
$CrCl_3$ %	≥	98.50
Si%	≤	0.005
Fe%	≤	0.01
Mn%	≤	0.01
S%	≤	0.0075

Properties

● Physical and Chemical Properties

Odorless, non-toxic, and stable under normal temperature and pressure. Insoluble in water, ethanol, acetone, methanol, and ether; slightly soluble in hot water.

● Packaging

For gram-scale packaging, PE (100ml) bottles are used; for kilogram-scale, aluminum-plastic bags are adopted. Twenty bags are consolidated into a paper drum. (Customization is available according to customer requirements.)

● Storage

Keep moisture-proof. Store in a cool, dry place.

Technical Indicators

Quality Specifications		Indicator
$CrCl_3$ %	≥	98.50
Si%	≤	0.005
Fe%	≤	0.01
Mn%	≤	0.01
S%	≤	0.0075

应用领域



有机合成与催化。烯烃聚合催化剂：制备Phillips 型聚乙烯催化剂的关键铬源，用于高密度聚乙烯（HDPE）生产。
有机金属合成：合成二苯铬、茂铬等有机铬化合物，是金属有机化学的基础原料。
还原试剂：被还原为$CrCl_2$后，用于脱卤、醛还原为烯基卤、C-Cl 键还原等反应。
路易斯酸催化：催化狄尔斯 - 阿尔德、Friedel-Crafts 等反应。

Application area



IOlefin Polymerization Catalyst:A key chromium source for preparing Phillips-type polyethylene catalysts, used in the production of high-density polyethylene (HDPE).
Organometallic Synthesis:Used in the synthesis of organochromium compounds such as chromocene and bis(benzene)chromium, serving as a fundamental raw material in organometallic chemistry.
Reducing Agent:After being reduced to $CrCl_2$, it is applied in reactions such as dehalogenation, reduction of aldehydes to vinyl halides, and reduction of C–Cl bonds.
Lewis Acid Catalysis:Acts as a Lewis acid catalyst in reactions such as Diels–Alder and Friedel–Crafts reactions.

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