Technical Data Sheet

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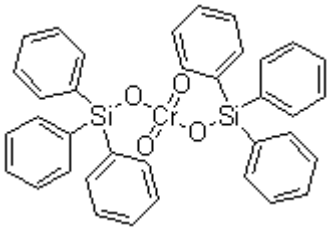
Silfluo LS-PTCR

Bis(triphenylsilyl)chromate (Polyolefin Catalyst Precursor)

Description:

Silfluo LS-PTCR is Bis(triphenylsilyl)chromate, an organochromium(VI) coordination complex.
The molecule contains a hexavalent chromium center covalently bonded to two triphenylsilyloxy groups via Cr – O – Si linkages.
The triphenylsilyl ligands provide steric bulk and thermal stability; the Cr(VI) center is the catalytically and chemically active site.
Used as catalyst precursor in supported chromium catalyst systems for ethylene polymerization (Phillips / Union Carbide type), and as selective oxidizing reagent in pharmaceutical and fine chemical synthesis.

Typical Physical Properties

Silfluo Code:	LS-PTCR
Chemical Name:	Bis(triphenylsilyl)chromate
Synonyms	Chromic acid, bis(triphenylsilyl) ester Bis(triphenylsiloxy)chromium(VI) oxide
CAS No. :	1624-02-8
EINECS No. :	216-612-8
Molecular Formula:	$C_{36}H_{30}CrO_4Si_2$
Molecular Weight:	634.79
Appearance:	Orange to red crystalline solid(powder)
Melting Point:	156-160°C
Chemical Structure:	

Solubility: Soluble in chlorinated solvents and aromatics; insoluble in water.

Applications:

1. HDPE and LLDPE polymerization catalyst precursor
Used as precursor in supported chromium catalyst formulation for industrial ethylene polymerization (Phillips / Union Carbide type systems).
2. Selective oxidizing reagent
Used as Cr(VI) oxidizing agent in multi-step pharmaceutical and fine chemical synthesis requiring selective functional group oxidation.
3. Organosilicon and coordination chemistry research
Used as building block in heterometallic siloxane framework and coordination polymer research.

Packing

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In 20kg or 25kg specialized sealed drum.

Safety and Storage

Store at or below 25°C in a cool, dry, well-ventilated place. Keep containers tightly sealed away from moisture, heat, and incompatible reducing agents.
Shipped as hazardous substance; refer to SDS before handling, storage, transport, and use.
Shelf life: 12 months minimum from manufacture date in original unopened containers stored at or below 25°C.

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