



## Silfluo LS-PTCR

Bis(triphenylsilyl)chromate (Polyolefin Catalyst Precursor)

### Description:

Silfluo LS-PTCR is Bis(triphenylsilyl)chromate, an organochromium(VI) coordination complex.

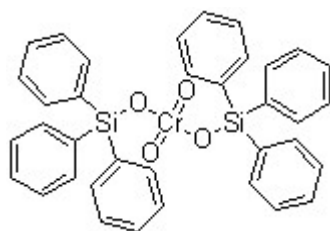
The molecule contains a hexavalent chromium center covalently bonded to two triphenylsilyloxy groups via Cr - O - Si linkages.

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 <sub>36</sub> H <sub>30</sub> CrO <sub>4</sub> Si <sub>2</sub>
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.

# Technical Data Sheet



[www.silfluosilicone.com](http://www.silfluosilicone.com)

### 3. Organosilicon and coordination chemistry research

Used as building block in heterometallic siloxane framework and coordination polymer research.

#### **Packing**

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.