



Silfluo LS-CMMS

External Electron Donor (C-Donor) for PP Catalysis

Description:

Silfluo LS-CMMS is Cyclohexylmethyldimethoxysilane, a bifunctional cycloalkyl-functional dimethoxysilane. The molecule contains one cyclohexyl group, one methyl group, and two hydrolyzable methoxy groups on silicon.

Widely designated as the C-Donor in the polyolefin industry; functions as external electron donor in $MgCl_2$ -supported Ziegler-Natta catalyst systems for propylene polymerization.

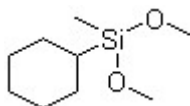
The cyclohexyl and methyl substituents coordinate with catalyst active sites to control stereoselectivity and regioselectivity during propylene homo- and copolymerization.

Performance equivalent to Evonik Dynasylan 9407.

Typical Physical Properties

Silfluo Code:	LS-CMMS
Chemical Name:	Cyclohexylmethyldimethoxysilane
Synonyms	Methylcyclohexyldimethoxysilane; C-DONOR; CHMMS; CMMS; CHMDMS;
CAS No. :	17865-32-6
EINECS No. :	629-092-6
Molecular Formula:	$C_9H_{20}O_2Si$
Molecular Weight:	188.34
Appearance:	Colorless transparent liquid
Purity (by GC, %)	99 min
Density (25°C, g/cm ³)	0.945-0.950
Refractive Index (n _{25.D})	1.4360-1.4380
Boiling Point:	201°C
Flash Point:	74°C Closed Cup

Chemical Structure:



Applications:

1. Propylene homo- and copolymerization

Used as primary external electron donor in $MgCl_2$ -supported Ziegler-Natta catalyst systems for isotactic polypropylene production across bulk, gas-phase, and slurry processes.

2. Catalyst formulation and tuning

Technical Data Sheet



www.silfluosilicone.com

Used by catalyst producers to formulate and optimize custom Ziegler-Natta systems for diverse polymerization plant requirements.

Packing

In 180kg drum and 900kg IBC.

Safety and Storage

Store at or below 25° C under nitrogen in a cool, dry, well-ventilated place away from direct sunlight, heat, sparks, and open flames. Keep containers hermetically sealed.

Moisture contact causes hydrolysis, releasing methanol and permanently deactivating Ziegler-Natta catalysts. Handle strictly under dry inert nitrogen atmosphere.

Shelf life: 12 months minimum from manufacture date in original unopened containers stored at or below 25° C.