



# FULLERIUM™ malonic ester C60

99,5% Multiple isomers. DMC-soluble

## Description

**C60-(malonic ester)<sub>n</sub>, carbonates DMC-soluble C60**, C60 malonic ester is a fullerene derivative soluble in carbonate solvents like DMC, usable in modern battery electrolytes.

Additive for battery electrolytes.

Available as an isomer mix with a number of malonic ester substituant from 3-5 groups.

Available as specific isomer with define number of malonic ester substituant  $n=3, n=4, n=5, n=6$ .

Solubility highly versatile: soluble in Carbonates, Ethyl Acetate, Methanol, Acetone, THF, Toluene, Dioxane, DMSO and many other similar solvents.

## The Fullerium Difference by Solaris

### FULLERIUM™ - malonic ester C60 Advantages:

- Made from highly pure 99.5% - 99.99% C60.
- High solubility on a large spectrum of solvent polarities.
- Dimethylcarbonate soluble allowing to be used in the field of battery technologies.
- Anode functionalization.
- Also available as the dicarboxylic acid, C60-(malonic acid)<sub>n</sub>, water soluble derivative WSC60MA (SOL5163).
- **Environmentally friendly synthesis using renewable energy.** [1]

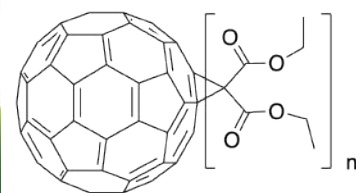
[1] Hydroelectric powered plant in Quebec.



Malonic ester C60 powder



Malonic ester C60 in dimethylcarbonate (DMC)



## malonic ester C60

C60-(malonic ester)<sub>n</sub>,  
 $n = 3-5$

**SOL5363**

**DMC-soluble**

99.5% Purity  
(multiple isomers)

**Grade 99.5% (SOL5363A)**

Available from **g level**  
(for R&D, Tech centers and universities) to **kg level**  
(for industrial developments).



Green chemistry



Environmentally friendly

SUSTAINABILITY is at the core of what we do and our engine for growth, which is why we prioritize the use of GREEN CHEMISTRY, avoid wastes, recover and recycle solvents and materials as much as possible and use renewable hydro-electrical energy to power our operations.

**FULLERIUM™** by Solaris Chem Inc.

**Buy now**

#### SOLARIS CHEM America

Headquarters & Labs  
3650 Bld. Cité-des-Jeunes, Suite 101,  
Vaudreuil-Dorion, Quebec, Canada  
J7V 8P2  
Toll Free: (855) 489-3557  
Phone: (579) 217-0260  
General info: [info@solarischem.com](mailto:info@solarischem.com)  
Sales: [sales@solarischem.com](mailto:sales@solarischem.com)  
website: [solarischem.com](http://solarischem.com)

#### SOLARIS CHEM Europe

Representative  
EMFUTUR Advanced  
Corporation S.L.  
Rnd. Circunvalación 188,  
of. 11,  
12003 Castellón, Spain  
P. +34 86496123  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Middle East

15, 4th Floor, Bldg. No. 5.,  
Wafa Complex, Street 103, Area 6,  
Farwaniya, Kuwait  
P. +965 6645991  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Southeast Asia

(Singapore, Malaysia, Thailand,  
Indonesia, Vietnam, Philippines,  
Myanmar)  
No. 27 Woodlands Industrial Park E1,  
#03-02, Singapore, 757718  
P. +65 9363 870  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Taiwan

(Taiwan, China, Hong Kong)  
2F., No. 67, Aly. 30, Ln. 136,  
Kangle St., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)  
P. +88 69 8900 980  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Japan

Representative  
TOSCO Co. LTD.  
401 Daido Bldg., 3-5-5,  
Uchikanda, Chiyoda-ku,  
Tokyo 101-0047, JAPAN  
T. +813 5295 63  
F. +81 5295 63  
website  
[solarischem.com/contact](http://solarischem.com/contact)



# FULLERIUM™ malonic ester C70

99,0% Multiple isomers. DMC-soluble

## Description

**C70-(malonic ester)<sub>n</sub>, carbonates DMC-soluble C70**, C70 malonic ester is a fullerene derivative soluble in carbonate solvents like DMC, usable in modern battery electrolytes.

Additive for battery electrolytes.

Available as an isomer mix with a number of malonic ester substituent from 3-5 groups.

Available as specific isomer with define number of malonic ester substituent  $n=3, n=4, n=5, n=6$ .

Solubility highly versatile: soluble in Carbonates, Ethyl Acetate, Methanol, Acetone, THF, Toluene, Dioxane, DMSO and many other similar solvents.

## The Fullerium Difference by Solaris

### FULLERIUM™ - malonic ester C70 Advantages:

- Made from highly pure 99.5% - 99.99% C70.
- High solubility on a large spectrum of solvent polarities.
- Dimethylcarbonate soluble allowing to be used in the field of battery technologies.
- Anode functionalization.
- Also available as the dicarboxylic acid, C70-(malonic acid)<sub>n</sub>, water soluble derivative WSC70MA (SOL5173).
- **Environmentally friendly synthesis using renewable energy.** [1]

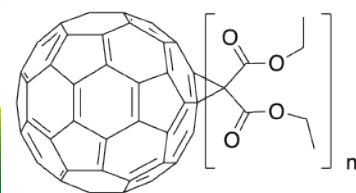
[1] Hydroelectric powered plant in Quebec.



Malonic ester C70 powder



Malonic ester C70 in dimethylcarbonate (DMC)



## malonic ester C70

C70-(malonic ester)<sub>n</sub>,  
 $n = 3-5$

**SOL5373**

**DMC-soluble**

99.0% Purity  
(multiple isomers)

**Grade 99.0% (SOL5373A)**

Available from **g level**  
(for R&D, Tech centers and universities) to **kg level**  
(for industrial developments).



Green chemistry



Environmentally friendly

SUSTAINABILITY is at the core of what we do and our engine for growth, which is why we prioritize the use of GREEN CHEMISTRY, avoid wastes, recover and recycle solvents and materials as much as possible and use renewable hydro-electrical energy to power our operations.

**FULLERIUM™** by Solaris Chem Inc.

**Buy now**

#### SOLARIS CHEM America

Headquarters & Labs  
3650 Bld. Cité-des-Jeunes, Suite 101,  
Vaudreuil-Dorion, Quebec, Canada  
J7V 8P2  
Toll Free: (855) 489-3557  
Phone: (579) 217-0260  
General info: [info@solarischem.com](mailto:info@solarischem.com)  
Sales: [sales@solarischem.com](mailto:sales@solarischem.com)  
website: [solarischem.com](http://solarischem.com)

#### SOLARIS CHEM Europe

Representative  
EMFUTUR Advanced  
Corporation S.L.  
Rnd. Circunvalación 188,  
of. 11,  
12003 Castellón, Spain  
P. +34 86496123  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Middle East

15, 4th Floor, Bldg. No. 5.,  
Wafa Complex, Street 103, Area 6,  
Farwaniya, Kuwait  
P. +965 6645991  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Southeast Asia

(Singapore, Malaysia, Thailand,  
Indonesia, Vietnam, Philippines,  
Myanmar)  
No. 27 Woodlands Industrial Park E1,  
#03-02, Singapore, 757718  
P. +65 9363 870  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Taiwan

(Taiwan, China, Hong Kong)  
2F., No. 67, Aly. 30, Ln. 136,  
Kangle St., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)  
P. +88 69 8900 980  
[solarischem.com/contact](http://solarischem.com/contact)

#### SOLARIS CHEM Japan

Representative  
TOSCO Co. LTD.  
401 Daido Bldg., 3-5-5,  
Uchikanda, Chiyoda-ku,  
Tokyo 101-0047, JAPAN  
T. +81 5295 63  
F. +81 5295 63  
website  
[solarischem.com/contact](http://solarischem.com/contact)