

OPV - Solar Cells

BioTech / Pharma





Fullerene C60

Water-soluble

Description

Fullerene C60 is the primary starting material for the synthesis of organic semiconductors used in solar cells, perovskites, and bio/pharma applications.

High purity Fullerene-C60 (carbon 60, or C60, fullerenes) for use in thermal evaporation systems as either electron acceptors, n-type semiconductors, or interface layers.

We do offer regular grades which may contain traces of volatiles (solvents) as 99.50% - 99.90%. High purity solvent-free C60 is also offered as 99.50% + to 99.99% + grades, specially formulated for biological oriented R&D and processes demanding ultra-pure fullerenes.

Our C60 fullerene is packed and shipped into high-quality glass amber vials under nitrogen.



Fullerene C60 SOL5060

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

REGULAR GRADES:

Grade 99.5% (SOL5060A) **Grade 99.90%** (SOL5060Z)

SOLVENT FREE GRADES:

Grade 99.5% (SOL5060X**)** Solvent-free*

Grade 99.90% (SOL5060W)

Solvent-free* (eZeSol

Grade 99.95% (SOL5060Y)

Solvent-free* (eZeSol

Grade 99.99% (SOL5060YY)

Solvent-free* (eZeSol

- * Cost These C60 products are going through further process in order to be highly soluble in organic solvents, oils and other related medias.
- * Solvents and volatiles are removed by subjecting the C60 to a controlled heat-cool process under dynamic inert medical nitrogen in order to suppress oxidation and preserve its pristine nature.







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.

Buy now

References

"Dispersive Non-Geminate Recombination in an Amorphous Polymer: Fullerene Blend"
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Author(s): G. Lalwani and B. Sitharaman - NanoLIFE 08/2013; 3:1342003. DOI: 10.1142/S1793984413420038

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Author(s): Masaki Shoji, Etsuhisa Takahashi, Dai Hatakeyama, Yuma Iwai, Yuka Morita, Riku Shirayama, Noriko Echigo, Hiroshi Kido, Shigeo Nakamura, Tadahiko Mashino, Takeshi Okutani, Takashi Kuzuhara. June 13, 2013. https://doi.org/10.1371/journal.pone.0066337

SOLARIS CHEM America

Headquarters & Labs 3650 Bld. Cité-des-Jeunes, Suite 101, Vaudreuil-Dorion, Quebec, Canada J7V 8P2 Phone: (579) 217-0260 Toll Free: (855) 489-3557 Fax: (514) 635-6326 General info: info@solarischem.com Sales: sales@solarischem.com website: solarischem.com

SOLARIS CHEM Europe

Rnda. Circunvalación 188, 12003 Castellón, Spain P. (+34) 643637196 europe@solarischem.com

SOLARIS CHEM Middle East

15, 4th Floor, Bldg. No. 5., Wafa Complex, Street 103, Area 6, Farwaniya, Kuwait P. +965 66459915 middleast@solarischem.com

SOLARIS CHEM Southeast Asia

Singapore, Malaysia, Thailand, Indonesia, Vietnam, Philippines, Myanmar No. 27 Woodlands Industrial Park

Myanmar No. 27 Woodlands Industrial Park E1, #03-02, Singapore, 757718 P. +65 9363 8706 southeast@solarischem.com

SOLARIS CHEM Asia

China, Taiwan, Hong Kong 2F., No. 67, Aly. 30, Ln. 136, Kangle St., Neihu Dist., Taiwan (R.O.C.) P. +886 989009807 asia@solarischem.com



OPV - Solar Cells

BioTech / Pharma





Fullerene C70

Water-soluble

Description

Fullerene C70, is the main starting material for the synthesis of organic semiconductors used in solar cells, perovskites, and bio/pharma applications.

Highly pure solvent-free C70 is offered in grades ranging from 99.0% to 99.5%, specially formulated for biological oriented R&D and processes demanding ultra-pure fullerenes.

Solvents and volatiles are removed by subjecting the C70 to a controlled heat-cool process under dynamic, inert medical nitrogen to suppress oxidation and maintain its originality.

Is used as:

- Organic photovoltaics (OPV).
- Water purification.
- Biohazard protection.
- Medical researches.

References

"Superconductivity in single crystals of the fullerene C70" Author(s): Schön, J., Kloc, C., Siegrist, T. et al.

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"Polymer:fullerene bulk heterojunction solar cells" Author(s): Jenny Nelson https://doi.org/10.1016/S1369-7021(11)70210-3





Fullerene C70 SOL5070

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

REGULAR GRADES:

Grade 98.0% (SOL5070U) Grade 99.0% (SOL5070B) Grade 99.5% (SOL5070A)

SOLVENT FREE GRADES:

Grade 99.0% (SOL5070V)
Solvent-free*
Grade 99.5% (SOL5070X)
Solvent-free*

* @Sol These C70 products are going through further process in order to be highly soluble in organic solvents, oils and other related medias.

* Solvents and volatiles are removed by subjecting the C70 to a controlled heat-cool process under dynamic inert medical nitrogen in order to suppress oxidation and preserve its pristine nature.







Environmentally friendly

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SOLARIS CHEM Europe

Rnda. Circunvalación 188, 12003 Castellón, Spain P. (+34) 643637196 europe@solarischem.com

SOLARIS CHEM Middle East

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