



Fullerene C60

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*
Grade 99.95% (SOL5060Y)
Solvent-free*
Grade 99.99% (SOL5060YY)
Solvent-free*

* 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.

References

"Dispersive Non-Geminate Recombination in an Amorphous Polymer: Fullerene Blend"

Author(s): Kurpiers, J., Neher, D. - Sci Rep 6, 26832 (2016). <https://doi.org/10.1038/srep26832>

"Multifunctional fullerene and metallofullerene based nanobiomaterials",

Author(s): G. Lalwani and B. Sitharaman - NanoLIFE 08/2013; 3:1342003. DOI: 10.1142/S1793984413420038

"Cationic Fullerenes Are Effective and Selective Antimicrobial Photosensitizers",

Author(s): Tegos, G. P.; Demidova, T. N.; Arcila-Lopez, D.; Lee, H.; Wharton, T.; Gali, H.; Hamblin, M. R. (2005). Chemistry & Biology. 12 (10): 1127-1135

"The present and future role of photodynamic therapy in cancer treatment",

Author(s): Brown, S.B.; Brown, E.A.; Walker, I. - (2004). Lancet Oncology. 5 (8): 497-508

"Surface Alterations to Impart Antiviral Properties to Combat COVID-19 Transmission",

Author(s): Reshma Y. Siddiquie, Amit Agrawal, Suhas S. Joshi.
© Indian National Academy of Engineering 2020. <https://doi.org/10.1007/s41403-020-00096-9>

"Anti-Influenza Activity of C60 Fullerene Derivatives",

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>



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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.

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FULLERIUM™ Fullerene C70

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.**

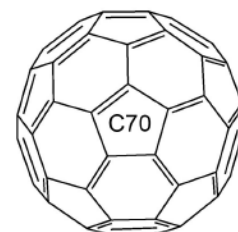
References

“Superconductivity in single crystals of the fullerene C70”

Author(s): Schön, J., Kloc, C., Siegrist, T. et al.
Superconductivity in single crystals of the fullerene C70. *Nature* 413, 831–833 (2001)
<https://doi.org/10.1038/srep26832>

“Polymer:fullerene bulk heterojunction solar cells”

Author(s): Jenny Nelson
[https://doi.org/10.1016/S1369-7021\(11\)70210-3](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:

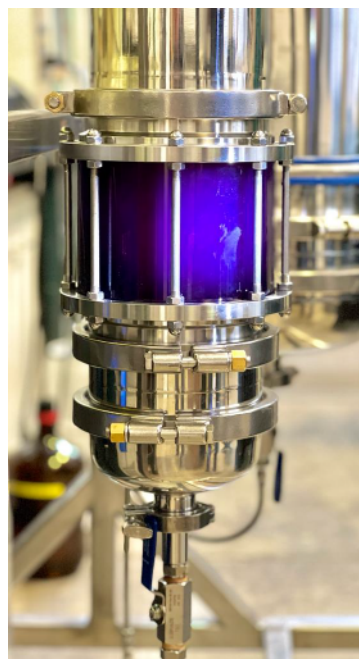
Grade 98.0% (SOL5070U)
Grade 99.0% (SOL5070B)
Grade 99.5% (SOL5070A)

SOLVENT FREE GRADES:

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

*  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.



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