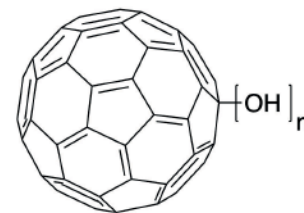



# Fullerenol C60

Water-soluble

## Description

**C60(OH)<sub>n</sub>**, water soluble C60, polyhydroxylated fullerenes, Fullerenol is a highly water-soluble C60 derivative that can be used in medicinal researches on neurodegenerative diseases, cancer, viral infection, and drug tolerances for its properties as antioxidant, antibacterial, and antiproliferative agent.



## Fullerenol C60

C60(OH)<sub>n</sub> n = 30-50

**SOL5369**

Available at **g level** (Tech centers and universities) and Available at **kg level** (for industrial developments).

**Grade 99.5% (SOL5369A)** Very low solvent residual for electronics, industrial.

**Grade 99.90% (SOL5369W)** Solvent-free - High Purity grade for Electronics, Biomedical R&D, Pharmaceutical.

**Grade 99.95% (SOL5369Y)** Solvent-free - Very High Purity grade for Electronics, standards, Biomedical R&D, Pharmaceutical.

**Grade 99.99% (SOL5369YY)** Solvent-free - Ultra High Purity grade for Electronics, standards, Biomedical R&D, Pharmaceutical.




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.

## The Fullerium Difference by Solaris



### Fullerium™ - Fullerenol C60 Advantages:

- Our highest purity grade (SOL5369YY) is made starting from C60 99,99% solvent-free going through a green synthetic process without solvent to obtain a highly pure solvent-free Fullerenol.
- Easily solubilized in water within seconds.
- High solubility in water up to 250 g/L.
- Available at the **kilo level**.
- Great growth is expected in this rapidly advancing technology.
- **Synthesized via a Solvent-Free Method.** [1]
- **Green chemistry.**
- **Environmentally friendly synthesis using renewable energy.** [2]

[1] Fullerenols produced using a solvent free process insuring the purest fullerenols available.

[2] Hydroelectric powered plant in Quebec.



Fullerenol powder



Fullerenol water solution (solubility up to 250 g/L)



Solvent-free



by Solaris Chem Inc.

## References

### “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. DOI: <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. DOI: <https://doi.org/10.1371/journal.pone.0066337>

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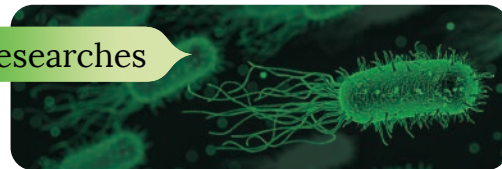
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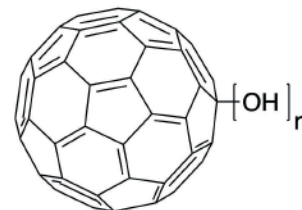



# Fullerium™ Fullerenol C70

Water-soluble

## Description

**C70(OH)<sub>n</sub>**, water soluble C70, polyhydroxylated fullerenes, Fullerenol is a highly water-soluble C70 derivative that can be used in medicinal researches on neurodegenerative diseases, cancer, viral infection, and drug tolerances for its properties as antioxidant, antibacterial, and antiproliferative agent.




## Fullerenol C70

C70(OH)<sub>n</sub>

**SOL5379**

Available at **g level** (Tech centers and universities) and Available at **kg level** (for industrial developments).

## The Fullerium Difference by Solaris



### Fullerium™ - Fullerenol C70 Advantages:

- Our highest purity grade (SOL5379A) is made starting from C70 99,90% solvent-free going through a green synthetic process without solvent to obtain a highly pure solvent-free Fullerenol.
- Easily solubilized in water within seconds.
- High solubility in water up to 250 g/L.
- Available at the **kilo level**.
- Great growth is expected in this rapidly advancing technology.
- **Synthesized via a Solvent-Free Method.** [1]
- **Green chemistry.**
- **Environmentally friendly synthesis using renewable energy.** [2]

[1] Fullerenols produced using a solvent free process insuring the purest fullerenols available.

[2] Hydroelectric powered plant in Quebec.



Fullerenol powder



Fullerenol water solution (solubility up to 250 g/L)

**Grade 99.5% (SOL5379B)**  
Solvent-free - Very High Purity grade for electronics, standards, biomedical R&D, and pharmaceutical.

**Grade 99.90% (SOL5379A)**  
Solvent-free - Ultra High Purity grade for electronics, standards, Biomedical R&D, and pharmaceutical.



Green chemistry



Environmentally friendly

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Fullerium™ by Solaris Chem Inc.



Solvent-free

## References

### “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. DOI: <https://doi.org/10.1007/s41403-020-00096-9>

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June 13, 2013. DOI: <https://doi.org/10.1371/journal.pone.0066337>

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