



Technical Data Sheet

NanoPro-1 - Nanocarbon Dispersion in o-Xylene

DESCRIPTION:

PROPERTIES/PRODUCT DESCRIPTION

NanoPro-1 is a commercially available resilient dispersion of the mixed sp²-sp³ nanometer-sized carbon-based materials exhibiting unique optical properties, including photoluminescence and tunable light emission. This product is a stable dispersion of carbon nanoparticles in o-xylene, a nonpolar solvent, suited for various applications, offering affordability without compromising quality.

Appearance - Dark brown dispersion

Product: mixed sp²-sp³ nanocarbon with fluorescent properties

Purity: 99.99%

Molecular Formula: C

Form: Dispersion in o-xylene

Surfactant free

Concentration of carbon nanoparticles – 1200 ppm

Size range: 1-4 nm

Optical properties:

Application areas: solar cells, UV-protection, bioimaging, biosensors, drug delivery, photocatalysis, energy conversion, sensing, optronics, catalysis, fingerprint recovery.



Storage and Handling

Storage Conditions: Store at room temperature (15-25 °C) in a tightly sealed container, away from direct sunlight and sources of ignition.

Shelf Life: Stable for 6 months when stored under recommended conditions.

Handling Precautions: Use appropriate personal protective equipment (PPE), including gloves and goggles. Ensure adequate ventilation.

Safety Information

Toxicity: o-Xylene is harmful if inhaled or absorbed through the skin. Consult the Safety Data Sheet (SDS) for detailed safety information.

Environmental Impact: Handle with care to avoid environmental contamination.

Packaging Information

Available in 100 mL, 500 mL, 1l bottles.

Contact Information:

- **Manufacturer/Supplier Name:** NanoPro-technology LTD

- **Address:** Derekh Begin 52, Tel Aviv-Jaffa 6713701, Israel

- **Email:** madina@nanopro-tech.com

Disclaimer: This data sheet is for informational purposes only. Please refer to the specific technical data and Safety Data Sheet for detailed information on handling or potential hazards associated with the product.