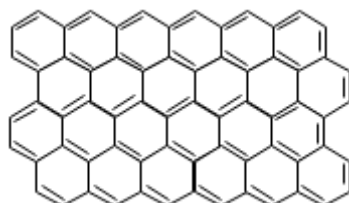


Product Data Sheet v20210822

**Product Name** Graphene

**STRUCTURE**



**Synonyms** Graphene nanopowder, 2D carbon, monolayer graphene, bilayer graphene, graphene nanosheets, graphene nanoribbons, graphene nanoplatelets

**Product Information** X-Ray Diffraction: Conforms to Structure, d: 0.35 nm, crystal size: 1.44 nm, layer < 5, Lateral size: 0.22 - 0.88  $\mu\text{m}$ , ID/IG:1.53

**Form** Powder

**Molecular weight** 12.01 g/mol

**Solubility Overview** Insoluble in H<sub>2</sub>O

**Inert gas (Yes/No)** Packaged under inert gas

**Purity** N/A

**Solubility** No data available

**Source** This product was prepared by chemical reduction method.

**Research** Medical applications, sensors, electronic devices, transistors,



<b>areas</b>	touch screens, coatings and films, aviation, power generation, electrochemistry, batteries, conductive ink, automotive, plastics and polymers, Anti-corrosion coatings, Anti-static packaging-cement
<b>Storage</b>	Keep the tightly closed package in a dry, well-ventilated and cool place.
<b>Do Not Freeze</b>	None known
<b>Special Instructions</b>	Hazardous decomposition products are carbon dioxide and carbon monoxide. Incompatible materials are strong oxidizing agents, acids, halogens, interhalogens and alkali metals. You should store away from oxidizing agents, halogens and acids. It irritates the skin and mucous membranes. This material is chemically stable under recommended storage conditions.
<b>Product Profile &amp; Procedures</b>	In order to obtain best results and activity in different techniques and preparations we recommend determining the optimum working environment by dispersing it in water, ethanol, NMP or DMF.
<b>Precautions</b>	This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices. Through your purchase, you expressly represent and warrant to MEINOX that you will properly test and use any Products purchased from MEINOX in accordance with industry standards. MEINOX and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. Please visit our Terms & Conditions page for more information.
<b>Disclaimer</b>	While every effort were made to ensure the accuracy of the information provided in this datasheet, MEINOX will not be liable for any omissions or errors contained herein. MEINOX reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MEINOX within 30 days of receipt of the



product.

**Other Notes**

Note that this data sheet is not lot-specific and is representative of the current specifications for this product. Please consult the certificate of analysis for further information. Note that shipping conditions may differ from storage conditions. Its transportation is not restricted by any mode of transportation. Its chemical, physical and toxicological properties have not been investigated.

**Bibliography & References**

Boran, Filiz and Çetinkaya Gürer, Sevil, The effect of starting material types on the structure of graphene oxide and graphene, Turkish Journal of Chemistry, (2019) 43: 1322 – 1335, DOI:10.3906/kim-1901-47.