Quick Facts

Product: Gold Nanopowder
Stock No.: NS6130-01-109
CAS: 7440-57-5
Color: Brown
Form: Powder

AuNPs used in biosensors as their inertness, unique optical properties, high surface area, and various surface functionalization methods. Gold nanoparticles (AuNPs) exhibit optical, magnetic and electrochemical properties with particular size making them perfect platform to manufacture biosensing materials. Au NPs are the most extensively examined owing to their unique tunable optical properties, which can be applied in distinct applications such as sensing, detecting, and imaging. Gold nanoparticles manifest SPR frequency and it depends on particle size, shape, dielectric properties, aggregate morphology, surface modification, and refractive index of the surrounding medium. The usage of gold nanoparticles in such sensors gives chance to amplify the signal and as a consequence of this, enhance the sensitivity of the devices. AuNP is an ideal material for the development of new biosensors and nanosensors due to the combination of unique features occupy the leading position in their usefulness in comparison with other
Applications

- Protein detection
- Glucose detection
- Oligonucleotide detection
- Heavy metal detection

Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-01-108</td>
<td>99.9%</td>
<td>50-100nm</td>
</tr>
<tr>
<td>NS6130-01-109</td>
<td>99.9%</td>
<td>&lt; 80nm</td>
</tr>
</tbody>
</table>

Technical Specification

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Au</td>
<td>196.96 g/mol</td>
<td>18.908 g/cm³</td>
<td>1064 °C</td>
<td>2970 °C</td>
</tr>
</tbody>
</table>

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Nanopowder</td>
<td>99.9 %</td>
</tr>
<tr>
<td>Other Metal</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

- Product: Gold Nanopowder
- Distribution: Global
- Stock Availability: Available
- Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

- Store in the original container in a dry location.
- Tumble contents prior to use to prevent segregation.
- Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

- Download MSDS/SDS NS6130-01-109
- SDS are available from the Nanoshel
- Website at https://www.nanoshel.com/sections/oxide-nanopowder

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