

GOLD Cadmium Sulfide CORE SHELL

99.9%
(Purity)



Stock no:
NS6130-12-000543

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	Au/Cds
APS	:	80-100nm

Metal@semiconductor CSNs have remarkable advantages compared with semiconductor counterparts. First, the outer coated semiconductor shell protects the metal core from aggregating and avoids undesirable corrosion in the reaction. Second, the separation of photogenerated charge carrier takes place easily at the metal-semiconductor interface, due to the different energy level between the metal and semiconductor. Third, combining plasmonic metal with semiconductors is capable of enhancing the lifetime of photo-generated charge carriers. These merits are crucial to improve the photocatalytic activity for metal@semiconductor CSNs. Au@CdS core-shell nanocrystals as a unique class of advanced material, have applied in many fields such as nonlinear optics, water-splitting system, photocatalytic reaction, biosensors, etc.

Applications

- ✓ Optics
- ✓ Water-splitting system
- ✓ Photocatalytic reaction
- ✓ Biosensors



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ISO 9001:2015
CERTIFIED COMPANY



20ZICE4589C



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