

CDSE
ZNSE
CORE SHELL
99.9%
(Purity)



Stock no:
NS6130-12-000584

CHEMICAL IDENTIFIERS

Purity	:	99.9%
Chemical name	:	Cdse/ZnSe
APS	:	80-100nm
Molecular Weight	:	-
Density	:	-
Melting Point	:	-

Due to significant advances in colloidal chemistry have led to the preparation of high quality nanometer sized semiconductor crystals. Cadmium chalcogenide nanocrystals exhibit an efficient photoluminescence, whose energy can be controlled by adjusting their size. Among several possible applications of CdSe nanocrystals, the biological labelling and sensing is important, because the CdSe nanocrystals exhibit much larger photostability than the organic dyes used usually and also facilitate multicolour imaging. The fluorescence quantum yield of the nanocrystals can be increased by its surface passivation with a shell of another semiconductor, resulting in core/shell systems. With a CdSe core, several II-VI semiconductors (CdS, ZnSe, ZnS) with wide band gaps can be well thought-out for the shell.

Applications

It has practical and potential applications in light emitting diodes, solar cells, nonlinear optical devices, photoelectric sensors, bioluminescence markers and so on.



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ISO 9001:2015
CERTIFIED COMPANY



20ZICE4589C



19ZA7GO1274G



20ZICE4588M

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