



PRODUCT DATA SHEET

CdTe/ZnS Quantum Dots in Water

Quantum dots (QDs) are fluorescent semiconductor nanocrystals. Abvigen offers a complete line of core/shell Quantum dots products in solid form, in organic solvents or aqueous solution. Abvigen's Quantum dots can be used in photovoltaics, light emitting diodes (LEDs), telecommunication and diode lasers. They can also be used in sensing, drug delivery, cell imaging, labeling of biomolecules, as well as other applications in life sciences and biotechnology.

For custom sizes, formulations or bulk quantities please contact our customer service department.

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Cat No	Product Name	Surface	Full Width at Half Maximum	Quantum Yield
AW-10-62	CdTe/ZnS Quantum Dots in Water, 620 ± 10nm	MPA-COOH	≤ 35 nm	≥ 90%
AW-10-66	CdTe/ZnS Quantum Dots in Water, 660 ± 10nm	MPA-COOH	≤ 40 nm	≥ 90%
AW-10-70	CdTe/ZnS Quantum Dots in Water, 700 ± 10nm	MPA-COOH	≤ 55 nm	≥ 75%
AW-10-74	CdTe/ZnS Quantum Dots in Water, 740 ± 10nm	MPA-COOH	≤ 60 nm	≥ 60%
AW-10-78	CdTe/ZnS Quantum Dots in Water, 780 ± 10nm	MPA-COOH	≤ 80 nm	≥ 60%
AW-10-82	CdTe/ZnS Quantum Dots in Water, 820 ± 10nm	MPA-COOH	≤ 90 nm	≥ 40%
AW-10-85	CdTe/ZnS Quantum Dots in Water, 850 ± 10nm	MPA-COOH	≤ 90 nm	≥ 30%
AW-10-62-PCOOH	CdTe/ZnS Quantum Dots in Water, 620 ± 10nm	PEG-COOH	≤ 35 nm	≥ 90%
AW-10-66-PCOOH	CdTe/ZnS Quantum Dots in Water, 660 ± 10nm	PEG-COOH	≤ 40 nm	≥ 90%
AW-10-70-PCOOH	CdTe/ZnS Quantum Dots in Water, 700 ± 10nm	PEG-COOH	≤ 55 nm	≥ 75%
AW-10-74-PCOOH	CdTe/ZnS Quantum Dots in Water, 740 ± 10nm	PEG-COOH	≤ 60 nm	≥ 60%
AW-10-78-PCOOH	CdTe/ZnS Quantum Dots in Water, 780 ± 10nm	PEG-COOH	≤ 80 nm	≥ 60%
AW-10-82-PCOOH	CdTe/ZnS Quantum Dots in Water, 820 ± 10nm	PEG-COOH	≤ 90 nm	≥ 40%
AW-10-85-PCOOH	CdTe/ZnS Quantum Dots in Water, 850 ± 10nm	PEG-COOH	≤ 90 nm	≥ 30%
AW-10-62-PNH2	CdTe/ZnS Quantum Dots in Water, 620 ± 10nm	PEG-NH2	≤ 35 nm	≥ 90%
AW-10-66-PNH2	CdTe/ZnS Quantum Dots in Water, 660 ± 10nm	PEG-NH2	≤ 40 nm	≥ 90%
AW-10-70-PNH2	CdTe/ZnS Quantum Dots in Water, 700 ± 10nm	PEG-NH2	≤ 55 nm	≥ 75%
AW-10-74-PNH2	CdTe/ZnS Quantum Dots in Water, 740 ± 10nm	PEG-NH2	≤ 60 nm	≥ 60%



AW-10-78-PNH2	CdTe/ZnS Quantum Dots in Water, 780 ± 10nm	PEG-NH2	≤ 80 nm	≥ 60%
AW-10-82-PNH2	CdTe/ZnS Quantum Dots in Water, 820 ± 10nm	PEG-NH2	≤ 90 nm	≥ 40%
AW-10-85-PNH2	CdTe/ZnS Quantum Dots in Water, 850 ± 10nm	PEG-NH2	≤ 90 nm	≥ 30%

Characteristics

Concentration: 5 mg/ml; 10 mg/ml

Size: 10 mg

Emission range: 620 nm-850 nm

Buffer: DI Water

Form: Suspension

Shipping Condition: Ambient Temperature

Storage: 4°C

Properties

Size tunable emission wavelength

Superior brightness

High resistance to photobleaching

Simultaneous excitation of multiple colors from a single light source

These properties make Quantum dots a unique class of light emitting nanoparticles that find promising potentials in optoelectronics, biotechnology and medicines

Features

Narrow emission peak

Wide choice of emission colors

High colloidal stability

Applications

Display

Solid-state lighting

Solar cells

QLED

Ordering Information

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