

Technical Specifications

CdSe/ZnS Core-Shell Quantum Dots

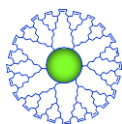
Composition	Cadmium Selenide / Zinc Sulfide quantum dots
Stabilizing ligand	Octadecylamine (ODA) ligands
Concentration	Order amount dependent
Organic Impurities	<1% (not including ligands)
Solvent*	Toluene
Volume	Order amount dependent
Lifetime	One year if stored properly. Dark at 2-8 °C
PL FWHM (nm)	28-35
UV-Vis FWHM (nm)	32-40
Quantum Yield	>40%

*Other solvents are available upon request.

Catalogue #	UV peak (nm)	Emission Peak (nm)	Molecular weight (g/mol)	nmol/mg
CZ-500	500±10	515-530	5.00E05	2.5
CZ-520	520±10	530-545	7.00E05	2.0
CZ-540	540±10	545-565	8.50E05	2.0
CZ-560	560±10	565-585	9.60E05	1.0
CZ-580	580±10	585-600	1.08E06	1.0
CZ-600	600±10	600-620	1.21E06	1.0
CZ-620	620±10	620-640	1.35E06	1.0
CZ-640	640±10	640-660	1.45E06	1.0

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Catalogue #	Core diameter (nm)	Shell Thickness (nm) **	Total Diameter (nm)
CZ-500	2-2.5	2.0	5.0
CZ-520	2.5	3.0	5.5
CZ-540	2.8	3.3	6.1
CZ-560	3.2	3.6	6.8
CZ-580	3.6	4.0	7.6
CZ-600	4.0	4.3	8.3
CZ-620	4.5	4.5	9.0
CZ-640	4.8	4.7	9.5

**Thickness of shell is expressed as total diameter added to core.