

Technical Specifications

High efficiency CdSe/ZnS Quantum Dots in organic solvent

Composition	Cadmium Selenide / Zinc Sulfide quantum dots
Stabilizing ligand*	Oleic acid (OA) 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)	20-30
Quantum Yield	>70%

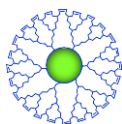
* Other ligands such as oleylamine, dodecanethiol are available upon request.

** Other organic solvents are available upon request.

Catalogue #	UV peak (nm)	Emission Peak (nm)	FWHM (nm)	Molecular weight (g/mol)	nmol/mg
HECZ-450	440±10	450±10	20-22	9.50E05	1.05
HECZ-470	460±10	470±10	20-24	1.20E06	0.83
HECZ-500	490±10	500±10	20-28	1.20E06	0.83
HECZ-520	510±10	520±10	21-28	1.35E06	0.74
HECZ-540	530±10	540±10	21-28	1.50E06	0.67
HECZ-560	550±10	560±10	23-28	1.20E06	0.83
HECZ-580	570±10	580±10	23-28	1.35E06	0.74
HECZ-600	590±10	600±10	23-28	1.35E06	0.74
HECZ-620	610±10	620±10	23-28	1.50E06	0.67
HECZ-650	640±10	650±10	25-30	1.65E06	0.61
HECZ-660	650±10	660±10	24-28	2.85E06	0.35

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Catalogue #	Core diameter (nm)	Shell Thickness (nm) ***	Total Diameter (nm)
HECZ-450	2-2.5	5-6	7-8
HECZ-470	2-2.5	6-7	8-9
HECZ-500	2.5-3	5-6	8-9
HECZ-520	2.5-3	6-7	9-10
HECZ-540	2.5-3	7-8	10-11
HECZ-560	3-3.5	5-6	8-9
HECZ-580	3-3.5	6-7	9-10
HECZ-600	3.5-4	5-6	9-10
HECZ-620	3.5-4	6-7	10-11
HECZ-650	4-4.5	6-7	11-12
HECZ-660	4.5-5.0	10-11	14-16

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