

Technical Specifications

High efficiency InP/ZnS Quantum Dots in Water

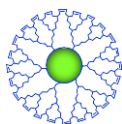
Composition	Indium Phosphide / Zinc Sulfide quantum dots
Stabilizing ligand*	Carboxylic Acid ligands
Concentration	Order amount dependent
Organic Impurities	<1% (not including ligands)
Solvent	Water
Volume	Order amount dependent
Lifetime	Six months if stored properly. Dark at 2-8 °C
PL FWHM (nm)	35-50
Quantum Yield	>30%

* Other terminated group such as NH₂, PEG are available upon request.

Catalogue #	UV peak (nm)	Emission Peak (nm)	FWHM (nm)	Molecular Weight (g/mol)	nmol/mg
HEINPW530	510±15	530±15	35-40	3.00E+05	3.3
HEINPW560	540±15	560±15	35-40	4.50E+05	2.2
HEINPW590	570±15	590±15	37-42	6.00E+05	1.7
HEINPW620	600±15	620±15	40-45	8.50E+05	1.2
HEINPW650	630±15	650±15	45-50	1.20E+06	0.8

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Catalogue #	Core diameter (nm)	Shell Thickness (nm) **	Total Diameter (nm)
HEINPW530	2-2.5	3-4.5	5-7
HEINPW560	2.5-3	3-4.5	5.5-7.5
HEINPW590	2.5-3	4-5.5	6.5-8.5
HEINPW620	3-3.5	4.5-6	7.5-9.5
HEINPW650	3.5-4	5-6.5	8.5-10.5

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