

## Technical Specifications

### High efficiency InP/ZnS Quantum Dots in Organic Solvent

<b>Composition</b>	Indium Phosphide / Zinc Sulfide quantum dots
<b>Stabilizing ligand*</b>	Oleic acid (OA) ligands
<b>Concentration</b>	Order amount dependent
<b>Organic Impurities</b>	<1% (not including ligands)
<b>Solvent**</b>	Toluene
<b>Volume</b>	Order amount dependent
<b>Lifetime</b>	One year if stored properly. Dark at 2-8 °C
<b>PL FWHM (nm)</b>	35-45
<b>Quantum Yield</b>	>60%

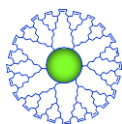
\* Other ligands such as oleylamine, dodecanethiol are available upon request.

\*\* Other solvents are available upon request.

<b>Catalogue #</b>	<b>UV peak (nm)</b>	<b>Emission Peak (nm)</b>	<b>FWHM (nm)</b>	<b>Molecular Weight (g/mol)</b>	<b>nmol/mg</b>
HEINP530	510±15	530±15	35-40	3.00E05	3.3
HEINP560	540±15	560±15	35-40	4.50E05	2.2
HEINP590	570±15	590±15	37-42	6.00E05	1.7
HEINP620	600±15	620±15	40-45	8.50E05	1.2
HEINP650	630±15	650±15	40-45	1.20E06	0.8

#### NNCrystal US Corporation

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Catalogue #	Core diameter (nm)	Shell Thickness (nm) **	Total Diameter (nm)
HEINP530	2-2.5	3-4.5	5-7
HEINP560	2.5-3	3-4.5	5.5-7.5
HEINP590	2.5-3	4-5.5	6.5-8.5
HEINP620	3-3.5	4.5-6	7.5-9.5
HEINP650	3.5-4	5-6.5	8.5-10.5

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