

Technical Specifications

Updated 1/31/2022

CIS Core-Shell Quantum Dots in Organic Solvent

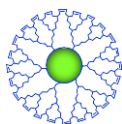
Composition	Copper Indium Sulfide / Zinc Sulfide
Stabilizing ligand	Oleic Acid / Oleylamine ligands 9:1
Concentration	Order amount dependent
Organic Impurities	<1% (not including ligands)
Solvent*	Toluene
Volume	Order amount dependent
Lifetime	One year if stored properly. Dark at 2-8°C
PL FWHM (nm)	<125
Quantum Yield	530-700 nm: 40%; 750-850 nm: 10-20%

*Other solvents are available upon request.

Catalogue #	UV peak (nm)	Emission Peak (nm)	nmol/mg
CIS-530	NA	530±15	9.1
CIS-560	NA	560±15	7.1
CIS-590	NA	590±15	5.2
CIS-620	NA	620±15	3.5
CIS-650	NA	650±15	1.7
CIS-700	NA	700±15	1.2
CIS-750	NA	750±15	1.0
CIS-800	NA	800±15	0.95
CIS-850	NA	850±15	0.91

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Catalogue #	Core diameter (nm)	Shell Thickness (nm) **	Total Diameter (nm)
CIS-530	2.0±0.5	2.0	4.0±0.5
CIS-560	2.5±0.5	2.0	4.6±0.5
CIS-590	3.0±0.5	2.3	5.2±0.5
CIS-620	3.3±0.5	2.3	5.5±0.5
CIS-650	3.5±0.5	2.5	5.8±0.5
CIS-700	3.8±0.5	2.5	6.0±0.5
CIS-750	4.2±0.5	2.7	6.6±0.5
CIS-800	4.4±0.5	2.7	6.8±0.5
CIS-850	4.6±0.5	2.7	7.1±0.5

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