

QDs type

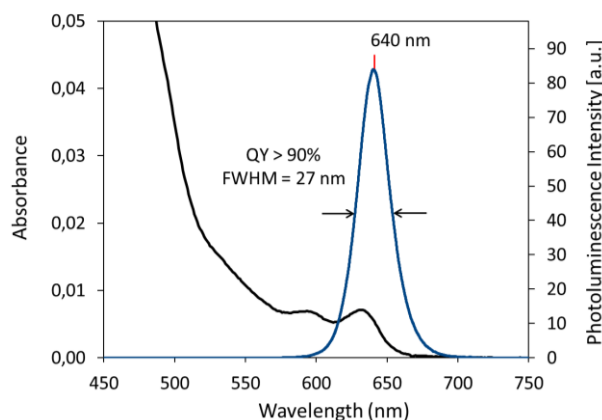
Type of nanomaterial	quantum dots (QDs)
Composition	cadmium based

QDs grade

Product status	in development
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QDs properties

Photoluminescence emission	
colour	red
peak position	640 ± 5 nm
quantum yield	>90%
peak broadening (FWHM)	27 ± 5 nm (80 ± 10 meV)
Absorbance	
first excitonic peak position	630 ± 5 nm
absorbance range	wavelengths shorter than 660 nm



Exemplary ABS and PL spectra*

*The measurements were made for exemplary samples and exact parameters may vary

QDs solution

QDs concentration	20.0 ± 1 mg/ml
Solvent	toluene
QDs dispersible in other nonpolar solvents**	e.g. toluene, chloroform, hexane
Possible transfer to polar solvents**	e.g. methanol, ethanol, water, ethylene glycol

**optical and colloidal properties of QDs may vary depending on the applied solvent

Storage and stability

Store in the original package, away from light sources at room temperature.
After opening, store in a tightly closed container without access to air and moisture.

SAFETY AND APPLICATION

Before using the product, read the material Safety Data Sheet (SDS):

- void contact with skin and eyes, QDs can cause eye and skin irritation. If swallowed, consult a doctor immediately
- use appropriate protective equipment (e.g. nitrile gloves, safety glasses)
- wash your hands thoroughly after use