



## CdTe RED EMISSION QUANTUM DOT ADS620QD

### INTRODUCTION

American Dye Source, Inc. is now offering from gram to kilogram quantity aqueous solution of semiconducting quantum dots, which emit strong fluorescent light from blue to red upon exposure to ultraviolet radiation.

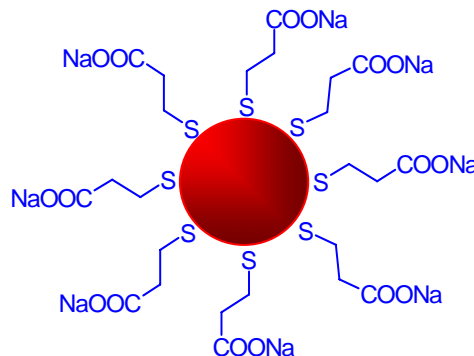
### DESCRIPTION

**ADS620QD** is CdTe quantum dot dispersed in water. This product can be used for various applications that include sol gel coatings, polymer coatings, biomedical probes, biosensors and fluorescent water based inks.

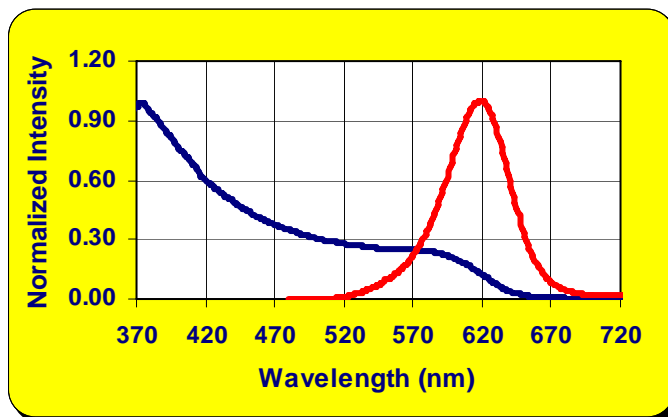
### TECHNICAL DATA

- Appearance: Red solution
- Concentration: 0.25 % based on Cd
- pH: 10 - 11
- Excitation wavelength: 465 nm
- Emission wavelength: 620 ± 10 nm
- Quantum yield: ~ 50 %
- Particle size: 4.5 – 5.5 nm
- Package: in N<sub>2</sub> sealed bottle
- Shelf life: 6 months

### STRUCTURE



### SPECTRA



*Absorption and emission spectra of ADS620QD quantum dot in aqueous solution.*

### CONTACT INFORMATION

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