



Technical Data Sheet

ACS Material Carboxylated Carbon Quantum Dots (Carboxylated CQDs)

[1 – Characterizations](#)

[2 – Applications](#)

Contact Information:

ACS Material, LLC.

Address: 959 E Walnut St., Suite 100,

Pasadena, CA 91106, USA

Phone: (866)-227-0656

Fax: (781)-518-0284

E-Mail: contact@acsmaterial.com

Revision: 040721

1. Characterizations

Product Name	Carboxylated CQDs	Carboxylated CQDs	Carboxylated CQDs	Carboxylated CQDs
Type	Solution	Solution	Solution	Solution
Solution Carrier	Water/Methanol	Water/Methanol	Water/Methanol	Water/Methanol
Excitation wavelength	360~500nm	360~500nm	360~500nm	360~500nm
Emission wavelength	400~500nm	500~540nm	540~580nm	580~640nm
Concentration	10mg/ml	10mg/ml	10mg/ml	10mg/ml
Quantum Yield	≥40%	≥40%	≥80%	≥40%
Full Width at Half Maximum	≤100nm	≤100nm	≤100nm	≤100nm
Shelf life	6 months	6 months	6 months	6 months

2. Applications

- 1) Composite materials
- 2) Fluorescence imaging
- 3) Optoelectronic devices
- 4) Fluorescent materials

Disclaimer: ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.