

Materials List for:

Facet-to-facet Linking of Shape-anisotropic Colloidal Cadmium Chalcogenide Nanostructures

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Materials

Name	Company	Catalog Number	Comments
Cadmium oxide (CdO), 99.5%	Sigma Aldrich		Highly toxic
Tri-n-octylphosphine oxide (TOPO), 90 % and 99%	Sigma Aldrich		Technical and analytical grade
Cadmium acetylacetonate (Cd(acac) ₂), 99.9%	Sigma Aldrich		Highly toxic
Hexadecanediol (HDDO), 90%	Sigma Aldrich		Technical grade
1-octadecene (ODE), 90%	Sigma Aldrich		Technical grade
Dodecylamine (DDA), 98%	Sigma Aldrich		Toxic
Cadmium nitrate tetrahydrate ((CdNO ₃) ₂ ·4H ₂ O), 98%	Sigma Aldrich		Highly toxic
Myristic acid (MA), 99%	Sigma Aldrich		Analytical grade
Octyl phosphonic acid (OPA), 97%	Sigma Aldrich		Analytical grade
Oleylamine (Oly), 70%	Sigma Aldrich		Technical grade
Hexadecyltrimethylammonium bromide (CTAB), 95%	Sigma Aldrich		Toxic
Selenium pellets (Se, 5 mm), 99.99%	Sigma Aldrich		Analytical grade
Hexadecylamine (HDA), 90%	Alfa Aesar		Technical grade, toxic
n-tetradecylphosphonic acid (TDPA), 98%	Alfa Aesar		Analytical grade
Silver nitrate (AgNO ₃), 99.9%	Alfa Aesar		Analytical grade
Oleic acid (OA), 90%	Alfa Aesar		Technical grade
Tri-n-octylphosphine (TOP), 97%	Strem		Analytical grade, toxic, air sensitive
n-hexylphosphonic acid (HPA), 97%	Strem		Analytical grade
n-octadecylphosphonic acid (ODPA), 97%	Strem		Analytical grade
Tellurium powder (Te), 99.9%	Strem		Air sensitive
Tri-n-butylphosphine (TBP), 99%	Strem		Analytical grade, highly toxic, air sensitive
Diisooctylphosphonic acid (DIPA), 90%	Fluka		Technical grade, toxic