

A non-aqueous organometallic route to highly monodispersed copper nanoparticles using $[\text{Cu}(\text{OCH}(\text{Me})\text{CH}_2\text{NMe}_2)_2]$

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Good quality, highly monodispersed capped copper metal nanoparticles have been synthesised in a non-hydrolytic approach using thermal decomposition of the Cu(II) precursor $[\text{Cu}(\text{OCH}(\text{Me})\text{CH}_2\text{NMe}_2)_2]$ in a hot coordinating solvent without further reducing agents; the copper nanoparticles have been characterised by optical spectroscopy (UV/VIS), electron microscopy (TEM), electron diffraction (SAED), and dynamic light scattering (DLS).