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Mechanisms of highly stabilized ex-situ oleic acid-modified iron oxide nanoparticles functionalized with 4-pentynoic acid

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without employing dehydrating agent!! primary layer OA secondary layer OA 4-pentynoic acid 1. NH₄OH (pH 12) 2. 333.15 K 3. N₂ secondary layer oleic acid-modified iron oxide NPs formed salt (partially water soluble) Remarks: NH₄OH NH₄OH

functionalization of 4-pentynoic acid to secondary layer oleic acid-modified iron oxide NPs

: non-polar tails

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