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Stabilization of nanodiamond dispersions with nonionic surfactant Igepal CA-630 in water and dimethyl sulfoxide

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NDs were purchased from the Special Design Bureau ‘Tekhnolog’ (St. Petersburg, Russia). They were obtained by exploding a trinitrotoluene–hexogen mixture (1 : 1, wt/wt) in pure water. Igepal CA-630 was purchased from Sigma. Distilled water and DMSO with purity grade of 99% were used.

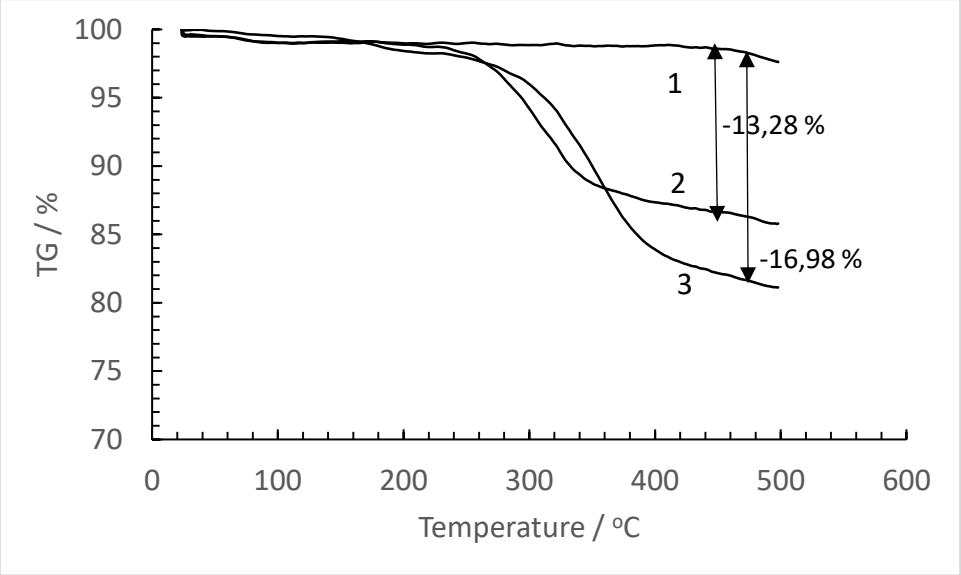

Figure S1 Thermograms of pristine NDs (1) and NDs modified with Igepal CA-630 from water (2) and from DMSO (3). Thermogravimetric analysis was performed using an STA 449 F3 Jupiter (Netzsch) instrument in argon with heating from 25 to 500°C at 10 deg/min rate.