Product code: 79-00-102
Product name: nanomag®-D-spio
Surface: plain
Size: 100 nm
Solid content: 25 mg/ml
Composition: dextran iron oxide composite particles
Polydispersity index: < 0.25
Shape: cluster-typed
Density: 1.4 g/ccm
Iron concentration: 2.4 mg/ml
Magnetization: $58 \, \text{Am}^2/\text{kg iron} \ (H = 80 \, \text{kA/m})$
Saturation magnetization: $>73 \, \text{Am}^2/\text{kg iron} \ (H > 800 \, \text{kA/m})$
Coercive field $H_c$: 0.129 kA/m
Stable in: aqueous buffers pH > 4
Not stable in: organic solvents, acidic solutions pH < 4
Product form: Suspension in water
Particles per ml: 3.4 E13
Particles per mg: 1.4 E12
Colour: dark brown
Additional remarks: Storage at 2 - 8 °C for 6 months.
TECHNOTES: The mean hydrodynamic particle diameter may vary in the range of 60-120 nm (Z-Average, photon correlation spectroscopy).