

Formation of sulfur nanoparticles from the aqueous solution of barium polysulfide

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Abstract

The process of sulfur nanoparticles formation from the aqueous solution of barium polysulfide has been discussed. Measurements of particle sizes were carried out on the laser particle size analyzer *SALD 7101* and probe microscope *SOLVER PRO M*. The possibility of obtaining nanoparticles of sulfur in the range from 10 nm to 40 nm, and regulate their size in aqueous dispersion has been reported. We revealed a strong dependence of particle size on the concentration of polysulfide.