



NYU



# Monodisperse PVT Spheres

**Polyvinyltoluene spheres synthesized with exceptionally narrow size distributions.**

Monodisperse latex spheres in a variety of sizes (each with a density of 1.05 g/cm<sup>3</sup>), including average diameters of:

- 0.350 micrometers (Dow Diagnostic Products LS 1054-E)
- 0.600 micrometers (Dow Diagnostic Products LS 1070-B)

**Select the desired size(s) and quantity during the checkout process.**

Samples have a typical polydispersity in diameter of 3% or less, as determined by scanning electron microscopy (Zeiss MERLIN), dynamic light scattering (LS Spectrometer) and holographic particle characterization (Spheryx xSight).

Particles are ready for use as shipped. Standard samples consist of aqueous 5 mL suspensions at 2% w/v particles, with 0.02% sodium azide added as an anti-microbial agent. Samples with custom volumes and solids contents are available upon request.

Particles with diameters smaller than 0.5  $\mu\text{m}$  were prepared by conventional emulsion polymerization with a persulfate-ion free-radical initiator. Larger particles were prepared by seeded emulsion polymerization using smaller particles as seeds.

## Technology ID

PVT SPHERES

## Category

Express Licenses  
Engineering & Physical  
Sciences/Materials  
Colloid Synthesis Facility

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