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**Graphene-coated polystyrene-divinylbenzene dispersive solid-phase extraction coupled with supercritical fluid chromatography for the rapid determination of 10 allergenic disperse dyes in industrial wastewater samples**

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### **Highlights**

- G@PS-DVB was synthesized as a sorbent for d-SPE.
- Optimization of G@PS-DVB based d-SPE process for the isolation and concentration of allergenic disperse dyes.
- Development of SFC method for the determination of allergenic disperse dyes.
- The allergenic disperse dyes could be separated by SFC in 11 min with high resolution.
- Efficient preparation and rapid and green analysis of allergenic disperse dyes in real samples.

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