

Product Data Sheet

Product Name: Disperse polyester dark blue

Cat. No.: GC81578

Chemical Properties

Cas. No. 56524-76-6

Formula $C_{16}H_{14}N_2O_4$

M.Wt 298.29

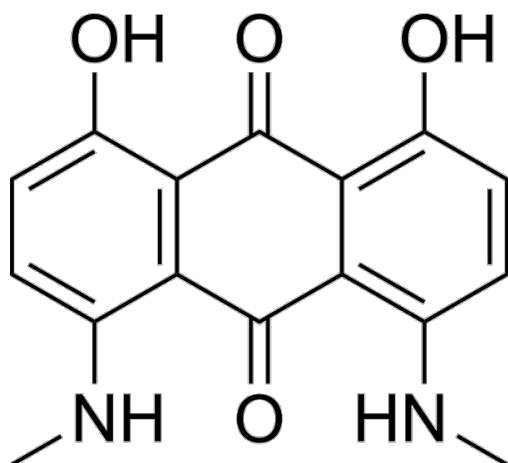
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Disperse Polyester Dark Blue is a chemical compound extensively employed in scientific research. It serves as a redox-active agent and functions as a probe for identifying reactive oxygen species (ROS) in cells and tissues. By accepting electrons from ROS and undergoing oxidation, Disperse Polyester Dark Blue demonstrates its redox activity. Consequently, a chemiluminescent signal is generated, which can be measured using a luminometer. The intensity of the signal directly correlates with the quantity of ROS detected within the sample.

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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- [1]. Peters, A. T.; Ma, Xisai. Methylated derivatives of 1,5-diamino-4,8-dihydroxyanthraquinone and 1,8-diamino-4,5-dihydroxyanthraquinone - blue dyes for synthetic polymer fibers. Journal of the Society of Dyers and Colourists (1992), 108(7-8), 344-8.
- [2]. Tsai KF, Cheng FJ, Huang WT, et al. The associations between renal disease severity and exposure to organophosphate flame retardants in patients with chronic kidney disease. Environ Int. 2022;170:107573.

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