



Safranin O

Biological stain, wastewater treatment

Safranin O is a biological stain used in histology, cytology and bacteriology. This dye composed of nitrite ion, safranin and dextran sulfate. Safranin O used in several staining methods such as Spore staining and Gram staining.

Safranin O also can have active role in treating wastewater containing nitrite ions.

Cat. Number	ASC-1011
CAS Number	477-73-6
MDL Number	MFCD00011759
Color Index	50240
Pubchem	310279833
Molecular Weight	350.85 gr/mol
Molecular Formula	C ₂₀ H ₁₉ ClN ₄
Storage Temperature	20 °C / Keep away from oxidizing agents.
Form and Color	Crystall / Red-brown to dark brown
Purity	≥ 95 %
Solution Appearance	0.1% in 50% EtOH: Red to dark red, clear solution
Solubility	Soluble in water 50 gr/L Soluble in alcohol
Wavelength of Maximum Absorption (λ max)	530 - 534 nm (in 50% EtOH)
Specific Absorption	≥ 1500 (λ max, in 50% EtOH)
Loss on Drying	≤ 8 %
Synonym	Basic Red2 / Cotton Red / Gossypimine / Safranin Y or A / 3,7-Diamino-2,8-dimethyl-5-phenylphenazinium chloride / Safranin T