



Crystal Violet

Biological stain, antimicrobial agent, wastewater treatment

Crystal Violet is a biological dye used in microbial culture media as pH indicator. Anti-inflammatory and cytotoxic properties of Crystal Violet is proven. Crystal Violet inhibits synthesis of DNA, RNA and Protein in some bacteria. But this dye is not effective against fungi or viruses.

Crystal Violet is utilized in Gram staining to differentiate Gram-positive and Gram-negative bacteria based on cell wall properties.

Crystal Violet also can remove organic compounds from water. So, it can be used in wastewater treatment.

Cat. Number	ASC-1009
CAS Number	548-62-9
MDL Number	MFCD00011750
Color Index	42555
Molecular Weight	407.98 gr/mol
Molecular Formula	C ₂₅ H ₃₀ ClN ₃
Storage Temperature	20 °C
Form and Color	Crystalline Powder / Green to dark green
Solubility	Soluble in Water (50 mg/m) / chloroform / alcohol (partially soluble) / glycerol (partially soluble). Insoluble in ether.
pH Transition Range	0.0 (Yellow) – 2 (Blue Violet)
Assay	≥ 96 %
Residue on Ignition	≤ 1.5 %
Arsenic (As)	≤ 10 ppm
Lead (Pb)	≤ 30 ppm
Zinc (Zn)	≤ 0.05 %
Water Content	≤ 7.5 %



Synonym

Gentian violet / Methylrosanilinium chloride