

Reply to “Comment on ‘Solvent Effect on the Electronic Spectra of Azine Dyes under Alkaline Condition’”

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The authors have concluded the presence of an obvious impurity in the experimental dye matrix. The commercial dye, methylene blue (MB) inherits the impurity in most cases. They have indicated that the impurity in the dye matrix interferes in the study. This is the only finding that has been reported and

should be borne in mind by the future worker. This finding also has some relevance with Plater (ref 8 of Mills' Comment). Plater writes that “The absorption spectra of a commercial sample of MVB in toluene is identical to that of red MB”, which is surely not a proof of the evolution of MVB.

Also Plater did not report the stability of the product (MVB).

Again, from the theoretical calculation they show that the central nitrogen atom is electron rich. But several papers (refs 11–14 of Plater's paper) show that the central nitrogen atom is electron deficient. The crystal structures of the hydrolyzed product of MB and the toluene extract of the impurity would sort out the problem unequivocally and that has yet to be written.

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