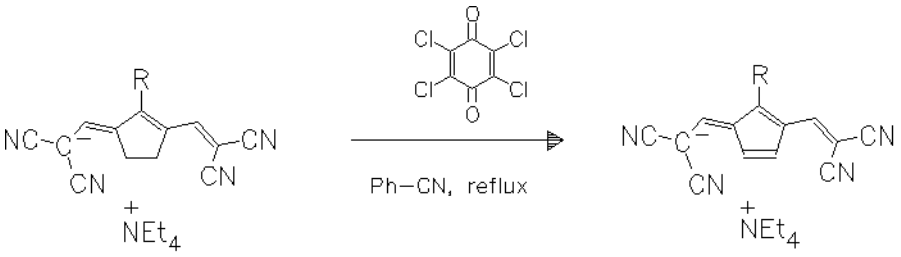
cyanine and polymethine dyes

T 1300

44 - 266

Anionic Polymethine Dyes Containing a Vinylene Bridge. — Dehydration of the malonocyanines (I) containing an ethylene bridge in the polymethine chain leads to the formation of the anionic polymethine dyes (II) with a vinylene bridge in the chromophore. UV- VIS, 1H NMR, 13C NMR spectra, and quantum-chemical calculations of the electronic structure are reported in the original paper. — (SLOMINSKY, YU. L.; KACHKOVSKI, A. D.; POPOV, S. V.; NECHITAILO, L. A.; IGNATIEV, N. V.; Dyes Pigm. 15 (1991) 4, 247-254; Inst. Org. Chem., Acad. Sci., Ukrainian SSR, Kiev 252660, USSR; EN)



I

a R: —H

b R: —Ph

c R: —NMe_2

II

33%

27%

34%