INTISARI

PENGUKURAN AKTIVITAS OPTIK PADA LARUTAN GULA

Telah dilakukan pengukuran aktivitas optik pada larutan gula. Sinar Laser He-Ne dipolarisasikan dengan polarisator cahaya menghasilkan cahaya terpolarisasi bidang. Bidang polarisasi mengalami perputaran saat dilewatkan larutan gula. Perputaran bidang cahaya polarisasi dianalisa dengan analisator. Analisator diputar secara manual menghasilkan perubahan intensitas cahaya.

Peristiwa aktivitas optik merupakan suatu peristiwa perputaran bidang cahaya polarisasi. Dari penelitian didapatkan nilai putaran optik relatif pada larutan gula sebesar $(30{,}3 \pm 6{,}8)\left(\frac{derajat}{dm\ gr/100mL}\right)$.

ABSTRACT

THE OPTICAL ACTIVITY MEASUREMENT OF THE SUGAR SOLUTION

The optical activity in sugar solution measurement has been done. The He-Ne laser ray polarized by light polarizator to obtain the polarized light plane. The polarized light plane occur rotation when passed through the sugar solution. The rotation of polarized light plane was analyzed with analyzer. The analyzer which turned around manually yield the change of light intensity.

Event of optical activity represent an event turning around of polarized light plane. From this research, it can be concluded the value of specification optical rotation relative of sugar solution is $(30{,}3 \pm 6{,}8)\left(\frac{derajat}{dm\,gr/100mL}\right)$.