

## Chemistry 416, Dr. Glaser

### Applications of UV/Vis Spectra: The pKa of Para-Nitrophenol

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Examination of equilibria. UV/Vis spectroscopy can be used to determine acidities. The spectrum shows the pH-dependence of the absorption spectrum of para-nitrophenol. Determine the pKa. (Your result should be 7.16).

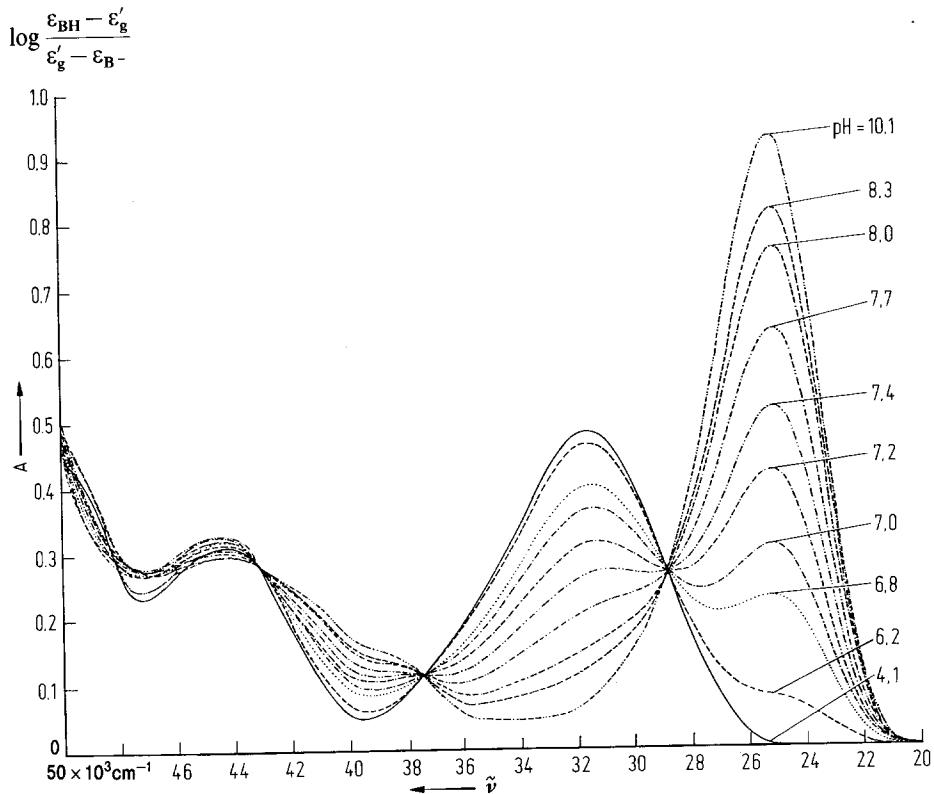


Fig. 50. pH-Dependence of the absorption spectrum of *p*-nitrophenol