

Correction to Sonified Infrared Spectra and Their Interpretation by Blind and Visually Impaired Students

Florbela Pereira,* João C. Ponte-e-Sousa, Rui P. S. Fartaria, Vasco D. B. Bonifácio, Paulina Mata, Joao Aires-de-Sousa, and Ana M. Lobo

Journal of Chemical Education 2013, 90 (8), 1028–1031. DOI: 10.1021/ed4000124

In Figure 1, the caption states that part A is a structure of butanoic acid; however, the line drawing is of pentanoic acid. The IR spectrum in part B is correct; it is the spectrum of butanoic acid. A figure with a corrected part A is shown below.

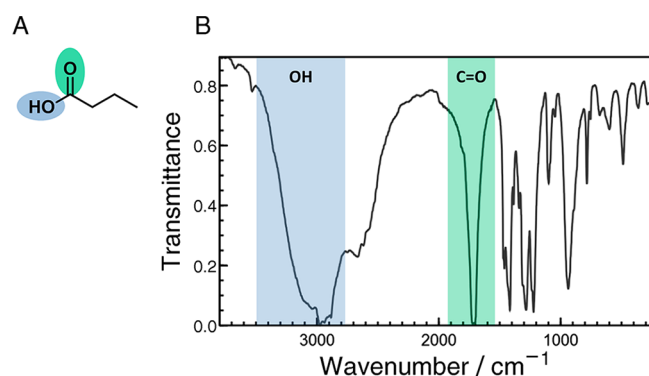


Figure 1. Butanoic acid: (A) chemical structure with highlighted functional groups; and (B) the IR spectrum highlighting typical vibration bands of the carboxylic acid. The IR spectrum of butanoic acid was taken in solution (10% in CCl_4 for 3800–1300 cm^{-1} ; 10% in CS_2 for 1300–650 cm^{-1} ; 10% in CCl_4 for 650–250 cm^{-1}) and was digitized by NIST from hard copy (from two segments).