

**N.M.R. Spectroscopic determination of association constants of hydrogen bonded complexes.  
Mixed associations between 2-tert-butylphenol and tetrahydrofuran in carbon tetrachloride.**

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**Abstract**

The chemical shift of the OH-signal from 2-tert-butylphenol (I) was measured in mixts. of tetrahydrofuran (II) and CCl<sub>4</sub> as a function of the mole fraction. The compn. of the solns. was varied within wide limits. From the measurements follows the const. of assocn. for the mixed association between I and II at 32°,  $K_x = 72 \pm 3$  [mole fraction<sup>-1</sup>]. In the calcns. the dimerization of I in soln. was considered. Some restricting conditions for the calcn. of the consts. of assocn. from NMR data are discussed.