



The acid-base character of interactions between xenon and selected carboxylic and sulfonic acids.

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Interactions of Xe atoms with RCO_2H and RSO_3H ($\text{R} = \text{CH}_3$ and CF_3) acids in different solvents are examined by analysis of ^{129}Xe chemical shifts extrapolated to zero solvent concentration. Obtained results are very sensitive to the Xe contacts with the methyl and trifluoromethyl groups as well as with the carboxylic and sulfonic groups of different acidity. The acid-base character of these acid-Xe interactions is considered.

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<http://www.elsevier.com>