

40) Hammett Acidity Function –
Literature value ($H_0 = -13.2$)

Contains No CBI

JAN 09 2004

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L13 ANSWER 1 OF 1 HCA COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 86:195906 HCA
 TITLE: Perfluorosulfonic acids. III. Hammett
 acidity
 functions of perfluoroalkanesulfonic acids and
 their
 mixtures with antimony(V) fluoride
 AUTHOR(S): Grondin, Joseph; Sagnes, Rene; Commeyras,
 Auguste
 CORPORATE SOURCE: Lab. Chim. Org., Univ. Sci. Tech. Languedoc,
 Montpellier, Fr.
 SOURCE: Bull. Soc. Chim. Fr. (1976), (11-12, Pt. 1),
 1779-83
 CODEN: BSCFAS
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 AB Acidity functions (H0) for $C_nF_{2n+1}SO_3H$ acids detd. by uv.
 spectrophotometry have values of -14.1, -14.0, -13.2, and -12.3
 for n =
 1, 2, 4 and 6 resp. at 22°. In $C_2F_5SO_3H-SbF_5$ and $C_4F_9SO_3H-SbF_5$
 mixts., H0 increased .apprx.2.5 units in the 0-1 and .apprx.2 in
 the 1-11
 mol% SbF concn. range.
 CC 68-2 (Phase Equilibriums, Chemical Equilibriums, and Solutions)
 ST perfluoroalkanesulfonic acid acidity function; sulfonic acid
 perfluoroalkane acidity; antimony fluoride acidity sulfonic acid
 IT Acidity function
 (of perfluoroalkane sulfonic acids, antimony fluoride on)
 IT 375-73-5 1493-13-6
 RL: PRP (Properties)
 (acidity function of)
 IT 7783-70-2
 RL: PRP (Properties)
 (acidity function of perfluoroalkane sulfonic acids in presence
 of)
 IT 354-88-1 375-73-5
 RL: PRP (Properties)
 (acidity function of, antimony pentafluoride effect on)