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I-2869

Br_2 , Cl_2 , ICl , ClO^- , BrO^- , I_3^- , Br_3^- ,

1956

ICl_2^- , BrICl^- , S_2Cl_2 , S_2Br_2 , Se_2Cl_2 , Se_2Br_2 ,

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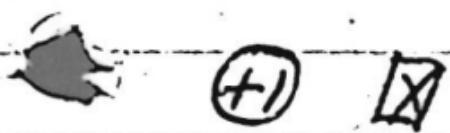


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84: 35952y Direct evidence for the polyiodide (I_5^-) anion by spectroscopic absorption. Fournier de Violet, Philippe; Bonneau, Roland; Joussot-Dubien, Jacques (Lab. Chim. Phys., Univ. Bordeaux I, Talence, Fr.). *J. Chim. Phys. Phys.-Chim. Biol.* 1975, 72(7-8), 855-8 (Fr). The absorption spectra of concd. I solns. contg. I^- in *tert*-BuOH or MeCN show in the spectral region 300-400 nm, 2 new absorptions bands, having their max. at 395 nm and 315 nm, which are attributed to the polyiodide anion I_5^- . The formation const. K_5 of the equil. reaction $I_3^- + I_2 \rightleftharpoons I_5^-$ was calcd. by using a spectroscopic technique to be $\sim 100 M^{-1}$, which is in good agreement with values reported for other solvents using electrochem. techniques.



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soln. in the presence of I⁻ ions in *tert*-BuOH gives rise to a
transient absorption band with a max. at 540 nm. At equil. the
soln. contains mainly I₂, I₅⁻ and to a lesser extent I₃⁻. The
actinic flash at 529 nm photodissociates the I₂ into I atoms which
can be scavenged by I₅⁻ to give the transient species I₆⁻ absorbing
at 540 nm. As the I₅⁻ concn. is increased the radical anion I₄⁻ is
also formed by direct photodissocn. of I₅⁻. Anal. of the kinetic
data is given.

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(cer. J_3^- ; III)