

J₅⁻



I-2869

1956

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

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

I_5^- , Br_5^- , ICl_4^- ($\checkmark$)

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84: 35952y Direct evidence for the polyiodide (I_5^-) anion by spectroscopic absorption. Fornier de Violet, Philippe; Bonneau, Roland; Jousset-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_s 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.

(Vi, Kp)

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85: 54552a Laser flash photolysis of iodine-iodide mixture in *tert*-butanol solution. Evidence for the existence of the radical anion I_6^- . Fournier de Violet, Philippe (Lab. Chim. Phys. A, Univ. Bordeaux I, Talence, Fr.). *Chem. Phys. Lett.* 1976, 37(3), 478-80 (Eng). Laser flash photolysis of a concd. I_2

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 I_2 , I_5^- and to a lesser extent I_3^- . The actinic flash at 529 nm photodissociates the I_2 into I atoms which can be scavenged by I_5^- to give the transient species I_6^- absorbing at 540 nm. As the I_5^- concn. is increased the radical anion I_4^- is also formed by direct photodissocn. of I_5^- . Anal. of the kinetic data is given.

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J_5^-

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(сер. J_3^- ; III)