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*Sulfates, Chemical reactions.

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process of boiling. In view of this it must be con-
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sulphate with silica theoretically requires a higher
temperature than soda, practical experience abso-
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mixtures of the above is given with the aid of infrared
spectra. The synthesis of previously unknown optical
antipodes of optically active 2, 3-dichloro- and 2,
3-dibromobutanediols obtained via the dissociation of
racemic forms as well as via the optically active
1, 4-dichloro- and 1, 4-dibromobutanediols is
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*Chlorides, *Hydroxides, Salts, Metals, Molecular
structure, Solutions, Chemical reactions.

(Chemistry--Physical, TT, v. 10, no. 11)

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I. Feitknecht, W.
II. Held, F.
III. Title: Hydroxy-...

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Trans. of Helvetica Chimica Acta (Switzerland) 1962,
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DESCRIPTORS: *Iron compounds, Hydroxides, *Hydrolysis, *Perchlorates, Solutions, Chemical precipitation, Colloids, *Crystallization

An investigation was made of the reaction products formed when $\text{Fe}(\text{H}_2\text{O})_6^{3+}$ is deprotonated in perchlorate solutions. When a small amount of base is added, metastable solutions containing the ions $\text{Fe}(\text{H}_2\text{O})_5\text{OH}^{2+}$, $\text{Fe}_2(\text{H}_2\text{O})_9(\text{OH})_2^{4+}$ and $\text{Fe}(\text{H}_2\text{O})_4(\text{OH})_2^+$ are formed, and $\alpha\text{-FeOOH}$ slowly crystallizes out. In a narrow intermediate range immediately after adding the base colloidal amorphous $\text{Fe}(\text{OH})_3$ and crystalline (Chemistry--Inorganic, TT, v. 10, no. 11) (over)

63-18780

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