On the Chromate of Alumina. By A. J. FAIRRIE, Esq.—
When chromate of potash is added to a solution of alum, a bulky yellow, flocculent precipitate is formed, which is easily soluble in excess of the alum. This precipitate, when thoroughly washed, gave the following results on analysis:

		Calculated.	Found.
Cr O ₃	 51	30·72	32·36
Al ₂ O ₃	 52	31·32	31·25
7 HO	 63	37·96	36·39
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Al ₂ O ₃ , Cr O ₃ + 7 Aq.	166	100·00	100·00

Chromic acid, therefore, has not a great affinity for alumina, as it readily forms with it a basic salt. The first washings of the precipitate appeared to contain an acid chromate of alumina.

Chromate of alumina is soluble in acetic acid and ammonia, but insoluble in chloride of ammonium.