



## A Method for the Identification of Pure Organic Compounds by a Systematic Analytical Procedure Based on Physical Properties and Chemical Reactions Volume N . 2

By Samuel Parsons Mulliken

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1916 Excerpt: . . . acid, asparagine, benzamide, benzonitrile, biuret, butyronitrile, cyanacetamide, guanidine carbonate, naphthonitrile, oxamidc, parabanic acid, phthalimide, propionitrile, propionamide, succinimide, sulphocarbamide, tolunitrile, p-tolenylimidoether, urea, and urethane. In case it is desired to remove all traces of ammonia in combination as ammonium salts from a mixture before subjecting it to drastic alkaline hydrolysis, as in T. 2. 7 and T. 2. 26, such ammonia may be most safely expelled by applying the lime and vacuum distillation treatment described by van Slyke (J. Biol. Chem. , 10 (1911), 20). 2. 9. Use of Benzenesulphonyl Chloride in Identification and Separation of Primary, Secondary and Tertiary Amines. When a primary amine is shaken with an excess of potassium hydroxide solution and benzenesulphonyl chloride, the reaction  $R.NH_2 + CH_6SO_2Cl \xrightarrow{2KOH} R.NK + CH_6SO_2H + 2H_2O$  frequently takes place, and a solution of the water-soluble potassium salt of a benzenesulphonamide is...



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