
[FULL] Elementos De Ingenieria De Las Reacciones Quimicas Fogler



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(Unpublished manuscript) Abstract A method is described for the preparation of Ti(III) 4-methylbenzylsulfonate and related sulfonates and sulfonylimines of the formula $RS(O)_2-2 X$, where R = aryl or heteroaryl and X = H, Br, I, CN, or NO_2 . These compounds may be prepared by a single step, three step, or two step method starting from Ti(IV). The single step method involves the reaction of Ti(IV) acetylacetonate or Ti(IV) sulfonate with the corresponding 4-methylbenzyl chloride. The three step method involves a single step reaction of Ti(IV) acetylacetonate with the corresponding methylbenzyl sulfonate, followed by heating to yield Ti(III) sulfonate. The two step method involves a single step reaction of Ti(IV) acetylacetonate with the corresponding sulfonylimine followed by heating to yield Ti(III) sulfonylimine. As examples, the sulfonylimines and sulfonates of the formula R-2-Cl and R-2-Br were prepared, where R = 4-methylphenyl or 4-methyl-3,5-dimethylphenyl. The sulfonylimines of the formula R-2- NO_2 were prepared by a single step, three step, or two step method, using Ti(IV) acetylacetonate or Ti(IV) sulfonate as the Ti(IV) source. 1. Introduction This paper describes a method for the preparation of titanium sulfonates and sulfonylimines of the formula $RS(O)_2-2 X$, where R = aryl or heteroaryl and X = H, Br, I, CN, or NO_2 . The compounds may be prepared from titanium(IV) sulfonates. Titanium(IV) sulfonates are known to react with methylbenzyl chloride in a three step method involving a single step and a two step reaction. 2 Ti(IV) sulfonates may be prepared in one of two

ways. One way is to react titanium(IV) oxide with sulfur trioxide complexed with dimethylformamide, followed by treatment with SOCl_2 .³ Another method involves the reaction of titanium(III) sulfide with sulfur trioxide complexed with dimethylformamide.⁴ 82157476af

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