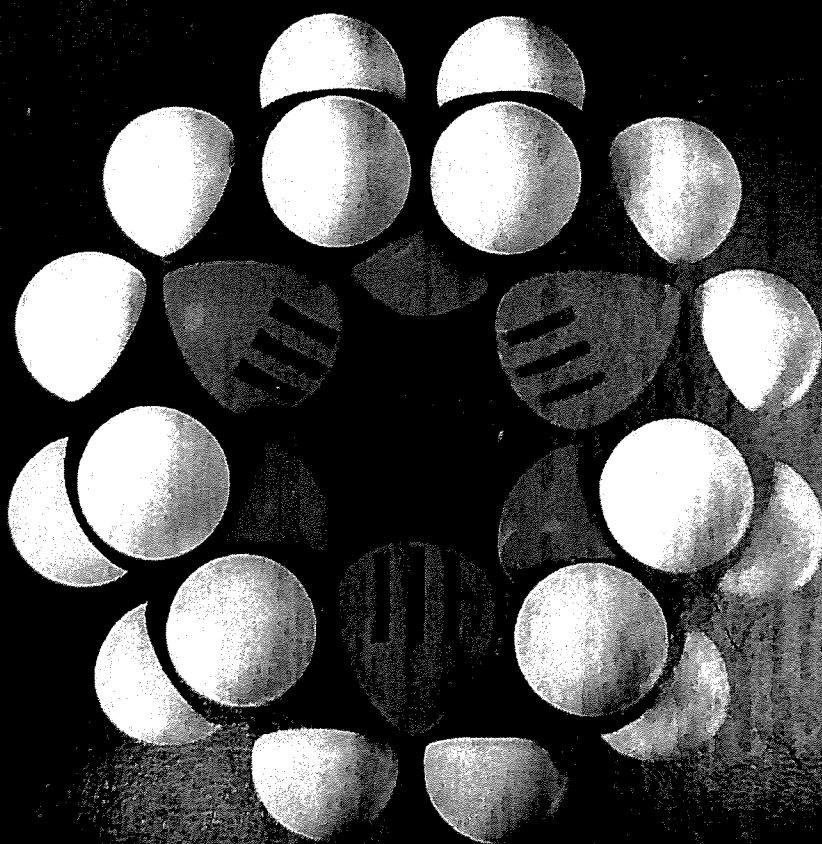


MORRISON  
AND BOYD  
ORGANIC  
CHEMISTRY  
FOURTH EDITION



# Organic Chemistry

Fourth Edition

ROBERT THORNTON MORRISON

ROBERT NEILSON BOYD

*New York University*

Allyn and Bacon, Inc.

Boston, London, Sydney, Toronto



*Production supervisor:* Judith Fiske  
*Production editor:* Mary Hill  
*Cover designers:* Vicky Prescott  
Christy Rosso

Copyright © 1983, 1973, 1966, 1959 by Allyn and Bacon, Inc., 7 Wells Avenue, Newton, Massachusetts 02159. All rights reserved. No part of the material protected by this copyright notice may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the copyright owner.

Library of Congress Cataloging in Publication Data

Morrison, Robert Thornton  
Organic chemistry.

Bibliography: p. 1293  
Includes index.

I. Chemistry, Organic. I. Boyd, Robert Neilson.

II. Title.

QD251.2.M67 1983      547      82-8855  
ISBN 0-205-05838-8

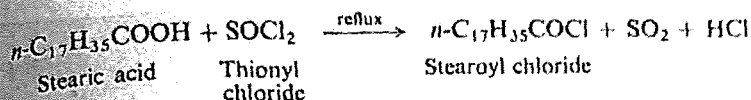
*Cover photograph:* 18-Crown-6.

Printed in the United States of America.

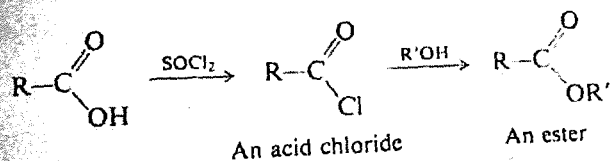
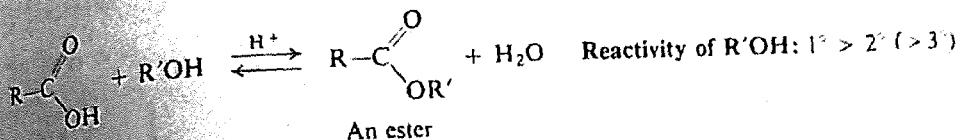
10 9 8 7 6 5 4 3 2 1 87 86 85 84 83 82

SEC. 19.9

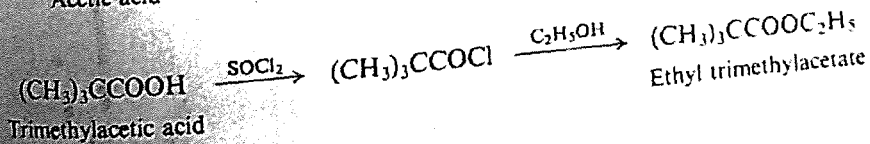
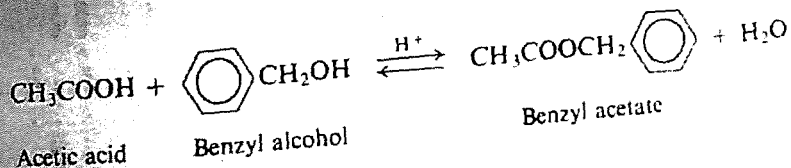
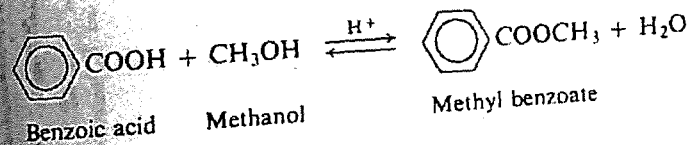
CONT.



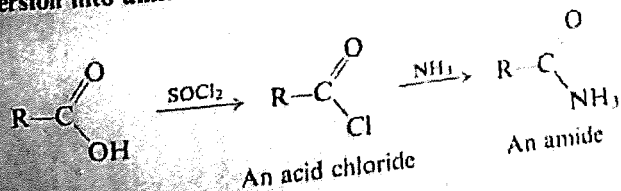
(b) Conversion into esters. Discussed in Secs. 19.16 and 20.15.



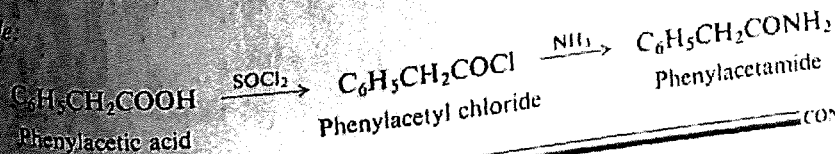
Examples:



(c) Conversion into amides. Discussed in Sec. 19.17.



Example:



(CONT)