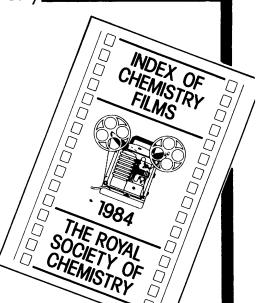
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Index of Chemistry Films 1984



Compiled by J.S.Clarke

Index of Chemistry Films 1984 consists of a comprehensive list of films, filmstrips, filmloops, videotapes, slides, soundtapes and overhead transparencies dealing with chemistry and related subjects.

The contents of this new book are as follows:

Notes for Guidance Subject Categories Classified Index

Part 1 Physical Chemistry

Part 2 Inorganic Chemistry

Part 3 Organic Chemistry

Part 4 Energy

Part 5 Biochemical Topics

Part 6 Applied Chemistry

Part 7 Miscellaneous Topics

Alphabetical Index

Appendix 1: Late Entries to Classified Index

Appendix 2: Items too Late for Classified and Alphabetical Indices

Addresses of Distributors

Each entry includes the following information:

Title

Date of Production

Black and White or Colour

Sound or Silent

Running Time

Gauge

Free Loan or Hire

Brief Contents

Film Sponsor

Distributor

Index of Chemistry Films 1984 represents a useful guide to the current availability and sources of supply of films, and associated materials in chemistry. It will be of interest to teachers, manufacturers and training officers in chemistry and related areas.

Softcover 480pp 0 85186 499 6 Price: £19.00 (\$34.00) RSC Members: £12.50

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Trifluoromethanesulfonic Anhydride

Trifluoromethanesulfonic anhydride (triflic anhydride), a clear, colorless liquid, is a versatile reagent in organic synthesis. Triflic anhydride is used mainly in the synthesis of alkyl and vinyl triflates,' but because of the excellent leaving-group characteristics and low nucleophilicity of the generated triflate anion, the anhydride also has widespread application in other syntheses.

Recently, triflic anhydride has been used in the direct conversion of acyl ylides to acetylenes (eq. 1); in the synthesis of dimethyl sulfide ditriflate, a new reagent for the conversion of amino heterocycles to iminosulfuranes, which are important intermediates in heterocyclic chemistry (eq. 2);3 in the synthesis of aryl triflates, used in the preparation of arenes (eq. 3); and in a regiospecific olefin synthesis involving the coupling of diorganocuprates with enol triflates (eq. 4).5

$$\begin{array}{c} O \\ R_1 - \bar{C} - \bar{C} - R_2 + (CF_3SO_2)_2O & \xrightarrow{Na/Hg} R_1 - C \equiv C - R_2 \\ & \downarrow PPh_3 & 45.80\% \end{array}$$

$$Me_2SO + (CF_3SO_2)_2O \longrightarrow Me \\ Me \\ OSO_2CF_3$$

$$Me \\ OSO_2CF_3$$

$$PhOH + (CF3SO2)2O \longrightarrow PhOSO2CF3$$
 (eq. 3)

70-90%

- 1) Stang, P.J.; White, M.R. Aldrichim. Acta 1983, 16(1), 15.
- Bestmann, H.-J.; Kumar, K.; Schaper, W. Angew. Chem., Int. Ed. Engl. 1983, 22, 167,
- 3) Hartman, G.D.; Schwering, J.E.; Hartman, R.D. Tetrahedron Lett. 1983, 24, 1011.
- 4) McMurry, J.E.; Mohanraj, S. ibid. 1983, 24, 2723.
- 5) McMurry, J.E.; Scott, W.J. ibid. 1980, 21, 4313.

17.617-6 Trifluoromethanesulfonic anhydride 10g \$21.00 50g \$77.70

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Aldrich offers a wide range of triflate derivatives. If the compound you're looking for is not listed below, please call or write our Technical Services Department.

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- 21,293-8 Methyltriphenoxyphosphonium trifluoro-5g \$9.75 methanesulfonate, 95% 25g \$30.20
- 22,564-9 Trimethylsilyl trifluoromethanesulfonate, 99% 10g \$12.90; 50g \$43.00
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- ether 100ml \$25.35
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- 100ml \$17.00; 800ml \$93.00 26,147-5 Dibutylboron triflate, 1.0M solution in
- 100ml \$19.00 dichloromethane
- 26,202-1 Di-tert-butylsilyl bis(trifluoromethanesulfonate), 97% 5g \$11.00; 25g \$37.00
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