

NEW CA Selects for 1990!

CA Selects are a series of fortnightly current awareness bulletins reporting on the latest research findings, patents, books and conference proceedings in over 230 different subject areas.

Six of the **new** titles introduced in 1990 cover:

Activated Carbon Adsorption Drug Analysis in Biological Fluids
Elastomers Polymerization Catalysts Polyacrylates (Patents)

A further 16 new titles previously offered as BIOSIS/CAS Selects are now available in the CA Selects series:

Monoclonal Antibodies	<input type="checkbox"/>	Pesticide Analysis	<input type="checkbox"/>	Anticonvulsants &	<input type="checkbox"/>
Nitrogen Fixation	<input type="checkbox"/>	Ulcer Inhibitors	<input type="checkbox"/>	Antiepileptics	<input type="checkbox"/>
Nutritional Aspects of Cancer	<input type="checkbox"/>	Virucides & Virustats	<input type="checkbox"/>	Antifungal & Antimycotic Agents	<input type="checkbox"/>
Occupational Exposure & Hazards	<input type="checkbox"/>	Allergy & Antiallergic Agents	<input type="checkbox"/>	Drug Interactions	<input type="checkbox"/>
Osteoporosis & Related Bone Loss	<input type="checkbox"/>	Alzheimer's Disease & Related	<input type="checkbox"/>	Indoor Air Pollution	<input type="checkbox"/>
Immunochemical Methods	<input type="checkbox"/>	Memory Dysfunctions	<input type="checkbox"/>	Leukotrienes	<input type="checkbox"/>

For further information and a **free** sample issue of the new titles that interest you, simply tick the boxes and return this page to the address below, with your business card attached.

Please return to:

The Secretary, Chemical Abstracts Service,
c/o Royal Society of Chemistry,
Thomas Graham House, Science Park,
Milton Road, Cambridge CB4 4WF,
United Kingdom



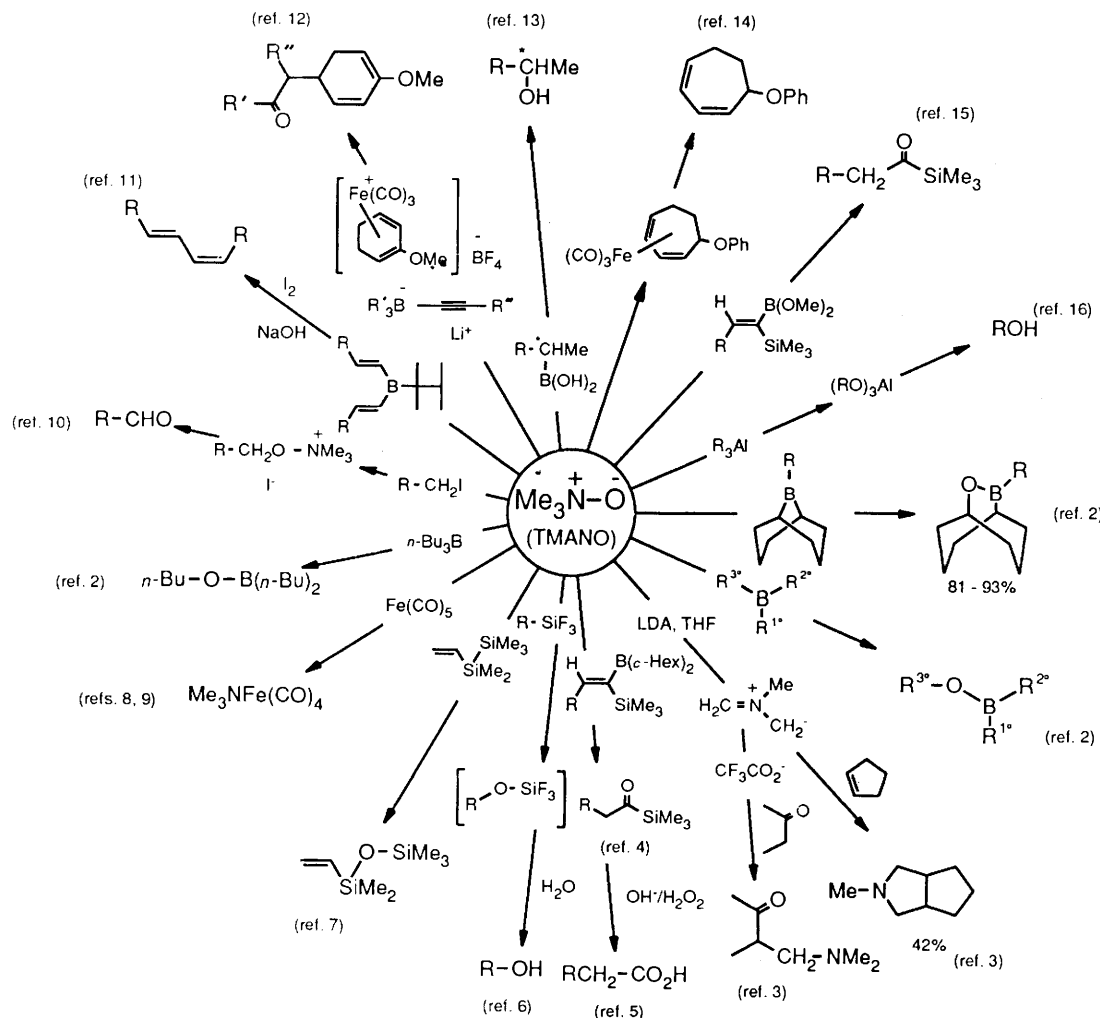
CAS[®]

ROYAL SOCIETY OF CHEMISTRY
Information Services



Trimethylamine N-oxide

Trimethylamine N-oxide (TMANO) has proven to be a very useful reagent for the synthetic organic chemist.¹ Aldrich offers TMANO as an anhydrous solid and also in its dihydrate form. Some examples, which only touch on the tremendous potential of this reagent, are outlined below.



References: (1) Soderquist, J.A.; Anderson, C.L. *Tetrahedron Lett.* **1986**, 27, 3961. (2) Soderquist, J.A.; Najafi, M.R. *J. Org. Chem.* **1986**, 51, 1330. Note: In R¹R²R³B oxidation, 78% of R¹ versus 20% of R³ was oxidized. (3) Beugelmans, R.; Benadjila-Iguetsira, L.; Negron, G.; Roussi, G. *Can. J. Chem.* **1985**, 63, 725. (4) Miller, J.A.; Zweifel, G. *Synthesis* **1981**, 288. Miller, J.A.; Zweifel, G. *J. Am. Chem. Soc.* **1981**, 103, 6217. (5) Zweifel, G.; Backlund, S.J. *ibid.* **1977**, 99, 3184. (6) Sato, K.; Kira, M.; Sakurai, H. *Tetrahedron Lett.* **1989**, 4375. (7) Sakurai, H.; Kira, M.; Kumada, M. *Bull. Chem. Soc. Jpn.* **1971**, 44, 1167. (8) Albers, M.O.; Coville, N.J. *Coord. Chem. Rev.* **1984**, 53, 227. (9) Luh, T.-Y. *ibid.* **1984**, 60, 255. (10) Franzen, V. *Org. Syn. Coll. Vol. V* **1973**, 872. (11) Zweifel, G.; Polston, N.L.; Whitney, C.C. *J. Am. Chem. Soc.* **1968**, 90, 6243. (12) Pelter, A.; Gould, K.J. *Chem. Commun.* **1974**, 1029. (13) Davis, A.G.; Robert, B.P. *J. Chem. Soc. (C)* **1968**, 1474. Note: oxidation occurs with retention of configuration. (14) Shu, B.Y.; Biehl, E.R.; Reeves, P.C. *Synth. Commun.* **1978**, 8(8), 523. (15) Hassner, A.; Soderquist, J.A. *J. Organomet. Chem.* **1977**, 131, C1. (16) Kabalka, G.W.; Newton, R.J., Jr. *ibid.* **1978**, 156, 65.

31,759-4 Trimethylamine N-oxide, 98%

1g \$11.00; 5g \$34.00

17,686-9 Trimethylamine N-oxide dihydrate, 98%

25g \$20.35; 100g \$50.30

Please contact our Bulk Sales Department at 800-255-3756
for quotations on larger quantities of these and any other products which may interest you.



chemists helping chemists in research & industry

aldrich chemical co.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA • (414) 273-3850