DICTIONARY OF SUBSTANCES AND THEIR EFFECTS

Dictionary of Substances and their Effects (DOSE) is a new, unique, user-friendly guide to 5,000 chemicals and the impact they have on life forms and the environment across the globe.

Compiled with the aid of official lists from the EC, UK, USA and Canada, **DOSE** comes in seven alphabetical volumes, each containing an index of chemical names, CAS registry numbers and molecular formulae, as well as a glossary of biological organisms. A separate volume containing cumulative indices of all volumes is also available.

DOSE LISTS EACH CHEMICAL'S:

- IDENTIFIERS
- OCCUPATIONAL EXPOSURE
- STATUS IN LEGISLATION WORLDWIDE

WITHNDEX

- EFFECTS ON SEWERAGE WORKS PROCESSES
- USES ECOTOXICITY MAMMALIAN TOXICITY PHYSICAL PROPERTIES

DOSE enables the user to make rapid hazard assessments of chemicals, facilitating risk assessment and further action. Such a store of information is of critical importance to scientists, environmentalists, industry professionals, regulators and researchers - indeed anyone affected by or concerned about chemicals and their potential effects on the environment the world over.

ORDER TODAY FOR THE FULL RECORD OF CHEMICAL EFFECTS

DOSE Prices All volumes hardcover

Volume 1 (A-B)	951 pages	ISBN 0 85186 331 0	(1992)	Price £180.00
Volume 2 (C)	876 pages	ISBN 0 85186 341 8	(1993)	Price £180.00
Volume 3 (Da-Dim)	760 pages	ISBN 0 85186 351 5	(1993)	Price £180.00
Volume 4 (Din-H)	998 pages	ISBN 0 85186 361 2	(1994)	Price £180.00
Volume 5 (I-M)	975 pages	ISBN 0 85186 371 X	(1994)	Price £180.00
Volume 6 (N-Ŕ)	1076 pages	ISBN 0 85186 330 2	(1994)	Price £220.00
Volume 7 (S-Z)	997 pages	ISBN 0 85186 340 X	(1994)	Price £220.00
Cumulative Index	320 pages	ISBN 0 85404 814 6	(1995)	Price £40.00
Complete Set	6853 pages	ISBN 0 85186 381 7	. ,	Price £1090.00

There is no members' discount for this product

To order, please contact:

The Royal Society of Chemistry, Turpin Distribution Services Limited, Blackhorse Road, Letchworth, Herts SG6 1HN, United Kingdom. Tel: +44(0)1462 672555. Fax: +44 (0)1462 480947.

RSC members ordering for personal use are entitled to a discount on most RSC products, and should contact:

Membership Administration Department, The Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 4WF, United Kingdom.Tel: +44 (0)1223 420066. Fax: +44 (0)1223 423623. E-mail (Internet): RSC1@RSC.ORG

For further information on RSC products, please contact the Sales and Promotion Department at our Cambridge address.



Information

Services

Fluka Prize Reagent of the Year 1995

40180 [(4R, 5R)-2,2-Dimethyl-1,3-dioxolan-4,5-bis-(diphenylmethoxy)]cyclopenta-dienylchlorotitanium [(R, R)-Duthaler-Hafner Reagent]

40182 [(45, 55)-2,2-Dimethyl-1,3-dioxolan-4,5-bis-(diphenylmethoxy)]cyclopenta-dienylchlorotitanium [(S, S)-Duthaler-Hafner Reagent]

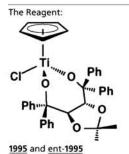
Package sizes: 500 mg and 5g

The Prize Winners 1995:



Rudolf O. Duthaler studied science at the ETH Zürich, finishing in 1973 with a thesis in physical organic chemistry under the direction of Prof. C. Ganter After two years of post-

doctoral studies with Prof. J. D. Roberts at CALTECH he returned to the ETH Zürich, where he was in charge of an independent research group studying synthetic metho-dology. In 1984 he joined Ciba-Geigy AG, Central Research Laboratories, where he holds the position of group and project leader. Among several topics, he also took part in the development of novel enantioselective titanium reagents and their application. He was awarded the silver medal of the ETH and the prize of the Association of Swiss Chemists.



References:

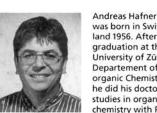
The Fluka Prize:



Fluka Chemie AG, Industriestrasse 25 CH-9471 Buchs/Switzerland



ØØ22-4936(1995)17:1-F



was born in Switzerland 1956. After graduation at the University of Zürich, Departement of Inorganic Chemistry, he did his doctoral studies in organic chemistry with Prof. W. von Philipsborn (University of Zürich).

After joining the group of L.S. Hegedus (1986, Colorado State University) he moved 1988 to the Central Research Laboratories of Ciba-Geigy, Basel and took part in the developement of novel enantioselective titanium reagents and their applications. In 1992 he has been nominated as group leader to the materials research departement of Ciba Geigy Marly and in 1994 he received the «Werner Preis» of the Swiss Chemical Society. His current research interests involves the developement of (photo)catalysts and functional chromophores and its applications in the field of materials science

The addition of allyl nucleophiles to aldehydes proceeds with unparalleled stereoselectivity, if the Reagent of the Year 1995 or ent 1995 is used for the transmetalation of allyl-Grignard or allyl-Li compounds [1, 2, 3]. Due to the broad variety of substrates tolerated, including mismatched combinations, this method is a powerful tool for acyclic stereoselection [1,4]. The tartrate derived tetraphenyl-dioxolane-dime-thanol used for this reagent and diacetone glucose, described earlier [5], are so far the only useful ligands identified for such reagents [6, 7]. While the diacetone glucose derived complex gives slightly inferior but

[1] A. Hafner, R.O. Duthaler, R. Marti, G. Rihs, P. Rothe-Streit, F. Schwarzenbach, J. Am. Chem. Soc. 1992. 114, 2321–2336. [2] R.O. Duthaler, A. Hafner, M. Riediker, Pure Appl. Chem. 1990, 62, 631-642. [3] R.O. Duthaler, A. Hafner, M. Riediker in «Organic Synthesis via Organometallics», K. H. Dötz, R.W. Hoffmann (Eds.), Vieweg, Braunschweig 1991, 285-309. [4] R.O. Duthaler, A. Hafner, P.L. Alsters, P. Rothe-Streit, G. Rihs, Pure Appl. Chem. 1992, 64, 1897–1910. [5] (a) M. Riediker, R.O. Duthaler, Angew. Chem., Int. Ed. Engl. 1989. 28, 494-495; Angew. Chem. 1989. 101, 488-489; (b) M. Riediker, A. Hafner, U. Piantini, G. Rihs, A. Togni, Angew. Chem., Int. Ed. Engl. 1989. 28, 499-500; Angew. Chem. 1989, 101, 493-495. [6] R.O. Duthaler, A. Hafner, Chem. Rev. 1992, 92, 807-832.

The winner will be awarded the sum of sFr. 10000.-. Nominations for the Fluka Prize «Reagent of the Year» should be submitted to the Fluka Prize Commitee c/o

Martin Riediker. born in 1952, received his doctorate in chemistry from the Swiss Federal Institute of Technology (Prof. O. Jeger) and post doctoral degree from Princeton University

(Prof. J. Schwartz). In 1982 he joined Central Research at Ciba, Basel. In 1988 he was appointed Head of Polymers R&D in Ardsley. Since 1991 he has been in charge of the US Resins Business and since 1994 of the American Polymers Division.

still good stereocontrol for allyl-additions. it is the reagent of choice for the aldol reaction of acetat- [8], propionat- [9], and glycine-enolate additions [10]. With enolates prepared from the Reagent of the Year 1995, on the other hand, good stereocontrol has so far been restricted to glycine [2, 3, 4]. Despite stoichiometric quantities (1.2 to 1.5 equivalents) of reagent used, the ease of handling allows for batches of up to 1 mol with normal laboratory equipment (e.g. [11]). Chiral ligand and monocyclopentadienyl-titanium trichloride can be recovered readily [2].

[7] R.O. Duthaler, A. Hafner, P.L. Alsters, G. Bold, G. Rihs, P. Rothe-Streit, B. Wyss, Inorg. Chim. Acta 1994, 222, 95-113. [8] R.O. Duthaler, P. Herold, W. Lottenbach, K. Oertle, M. Riediker, Angew. Chem., Int. Ed. Engl. 1989, 28, 495–497; Angew. Chem. 1989, 101, 490–491. [9] R.O. Duthaler, P. Herold, S. Wyler-Helfer, M. Riediker, Helv. Chim. Acta 1990, 73, 659-673. [10] G. Bold, R.O. Duthaler, M. Riediker, Angew. Chem., Int. Ed. Engl. 1989, 28, 497–498; Angew. Chem. 1989, 101, 491–493. [11] K.Oertle, H. Beyeler, R.O. Duthaler, W. Lottenbach M. Riediker, E. Steiner, Helv. Chim. Acta 1990, 73, 353-358.

Note: These reagents are also included in the «Encyclopedia of Reagents for Organic Syntesis», L.A. Paquette (Ed), Wiley, New York, 1995.

Fluka Chemie AG, CH-9471 Buchs/Switzer-land no later than September 30th. Full details regarding the Fluka Prize are available upon request.