Hawley's Condensed Chemical Dictionary

Fourteenth Edition

Revised by Richard J. Lewis, Sr.

DISCARDED

THE LIBRARY LA SIERRA UNIVERSITY

JUL 0 8 2002

RIVERSIDE, CALIF. 92515



INTEX EXHIBIT 2004, Pg. 1 Bestway v. Intex; IPR2017-01396

Find authenticated court documents without watermarks at docketalarm.com.

This book is printed on acid-free paper.

Copyright © 2001 by John Wiley & Sons, Inc., New York. All rights reserved.

Published simultaneously in Canada.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Sections 107 or 108 of the 1976 United States Copyright Act, without either the prior written permission of the Publisher, or authorization through payment of the appropriate per-copy fee to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. (978) 750-8400, fax (978) 750-4744. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158-0012, (212) 850-6011, fax (212) 850-6008, E-mail: PERMREQ@WILEY.COM.

For ordering and customer service, call 1-800-CALL-WILEY.

Library of Congress Cataloging-in-Publication Data:

Condensed chemical dictionary. Hawley's condensed chemical dictionary. Includes index. ISBN 0-471-38735-5 (cloth: acid-free paper) 1. Chemistry—Dictionaries. I. Title: Condensed chemical dictionary. II Hawley, Gessner Goodrich, 1905- III. Lewis, Richard J., Sr. IV. Title. OD5 C5 2002

QD5 C5 2002 540".3--dc21

2001045614

Printed in the United States of America.

10 9 8 7 6 5 4 3 2

INTEX EXHIBIT 2004, Pg. 2 Bestway v. Intex; IPR2017-01396 pound

erature ind oils are hyid alcoxes are ymers, . Comth texle odor = good tic solare as

x,

erry,

eresin,

rystal-

sters

:h

-crackabherl prodg and on in-

ed col-C, bp liquids

act. lame-, l other g covne and n gums e mol-

ISUALLY Crys-Crys-Crmal ned by

DOCKE.

dewaxing tank bottoms, refinery residues, and other petroleum waste products; they have an average molecular weight of 500–800 (twice that of paraffin). Viscosity 45–120 sec (SUS at 98.9C), penetration value 3–33. Petroleum-derived products are used for adhesives, paper coating, cosmetic creams, floor wax, electrical insulation, heat-sealing, glass fabric impregnation, leather treatment, emulsions, etc. Some natural products, notably chlorophyll, are classed as microcrystalline waxes.

- wax, polymethylene. White, odorless solid with congealing point of 96.1C. Offered in flaked form. Approved by FDA.
- wax tailings. Brown, sticky, semiasphalt product obtained in the destructive distillation of petroleum tar just before formation of coke.
 Use: Wood preservative, roofing paper.

"Weatherometer." See aging (c).

web. A roll of paper as it comes from the fourdrinier machine and used to feed a rotary printing press.

weedkiller. See herbicide.

Weerman degradation. Formation of an aldose with one less carbon atom from an aldonic acid by a Hoffmann-type rearrangement of the corresponding amide. This is a general reaction of α hydroxy carboxylic acids.

weight. See mass.

- weighting agent. (1) In soft drink technology, an oil or oil-soluble compound of high specific gravity, such as a brominated olive oil, which is added to citrus flavoring oils to raise the specific gravity of the mixture to about 1.00, so that stable emulsions with water can be made for flavoring. (2) In the textile industry a compound used both to deluster and lower the cost of a fabric, at the same time improving its "hand" or feeling. Zinc acetylacetonate, clays, chalk, etc. are used.
- welding. Joining or bonding of metals or thermoplastics by application of temperatures high enough to melt the materials so that they fuse to a permanent union on cooling. In general, the temperatures used for thermoplastics are considerably lower than required for metals. The following methods are used for metals: (1) An oxyacetylene flame is applied with a torch to the butted ends or edges of the pieces to be joined. (2) A method called brazing is similar to (1), except that a nonferrous filler alloy is inserted between the pieces. A number of alloys are used, e.g., Ag/Cu/Zn; the filler cannot be remelted. It forms an intermetallic compound at the interfaces. (3) In resistance welding, the heat is provided by the resistance to an electric current as it passes through the material. No filler metal is used. (4) In ultrasonic

The following methods are used for welding such thermoplastics as polyvinyl chloride, HDPE, polypropylene, and polycarbonates: (1) Hot gas technique, in which an electrically or gas-heated "gun" melts a rod of the same material as the parts to be joined. (2) Friction welding, in which heat is generated by rapid rubbing together of the two surfaces, one of which is held stationary while the other is rubbed against it at a speed great enough to cause softening. (3) Ultrasonic welding, which is also used for metals. See (4) above. See solder.

"Wellbrom" [Albemarle]. TM for sodium bromide solution, completion fluid.

Use: Completion, work-over and packer fluid in oil-field applications.

- Werner, A. (1866–1919). A native of Switzerland, Werner was awarded the Nobel prize for his development of the concept of the coordination theory of valence, which he advanced in 1893. His ideas revolutionized the approach to the structure of inorganic compounds and in recent years have permeated this entire area of chemistry. The term *Werner complex* has largely been replaced by "coordination compound."
- Wessely-Moser rearrangement. Rearrangement of flavones and flavanones possessing a 5-hydroxyl group, through fission of the heterocyclic ring and reclosure of the intermediate diaroylmethanes in the alternate direction.
- Weston cell. An electrical cell used as a standard that consists of an amalgamated cadmium anode covered with crystals of cadmium sulfate dipping into a saturated solution of the salt, and a mercury cathode covered with solid mercury sulfate.
- Westphalen-Lettre rearrangement. Dehydration of 5-hydroxycholesterol derivatives accompanied by C-10 to C-5 methyl migration in compounds with a β -substituent in C-6.

wet deposition. See acid precipitation.

wetting agent. A surface-active agent that, when added to water, causes it to penetrate more easily into, or to spread over the surface of, another material by reducing the surface tension of the water. Soaps, alcohols, and fatty acids are examples. See detergent.

INTEX EXHIBIT 2004, Pg. 3 Bestway v. Intex; IPR2017-01396

Find authenticated court documents without watermarks at docketalarm.com