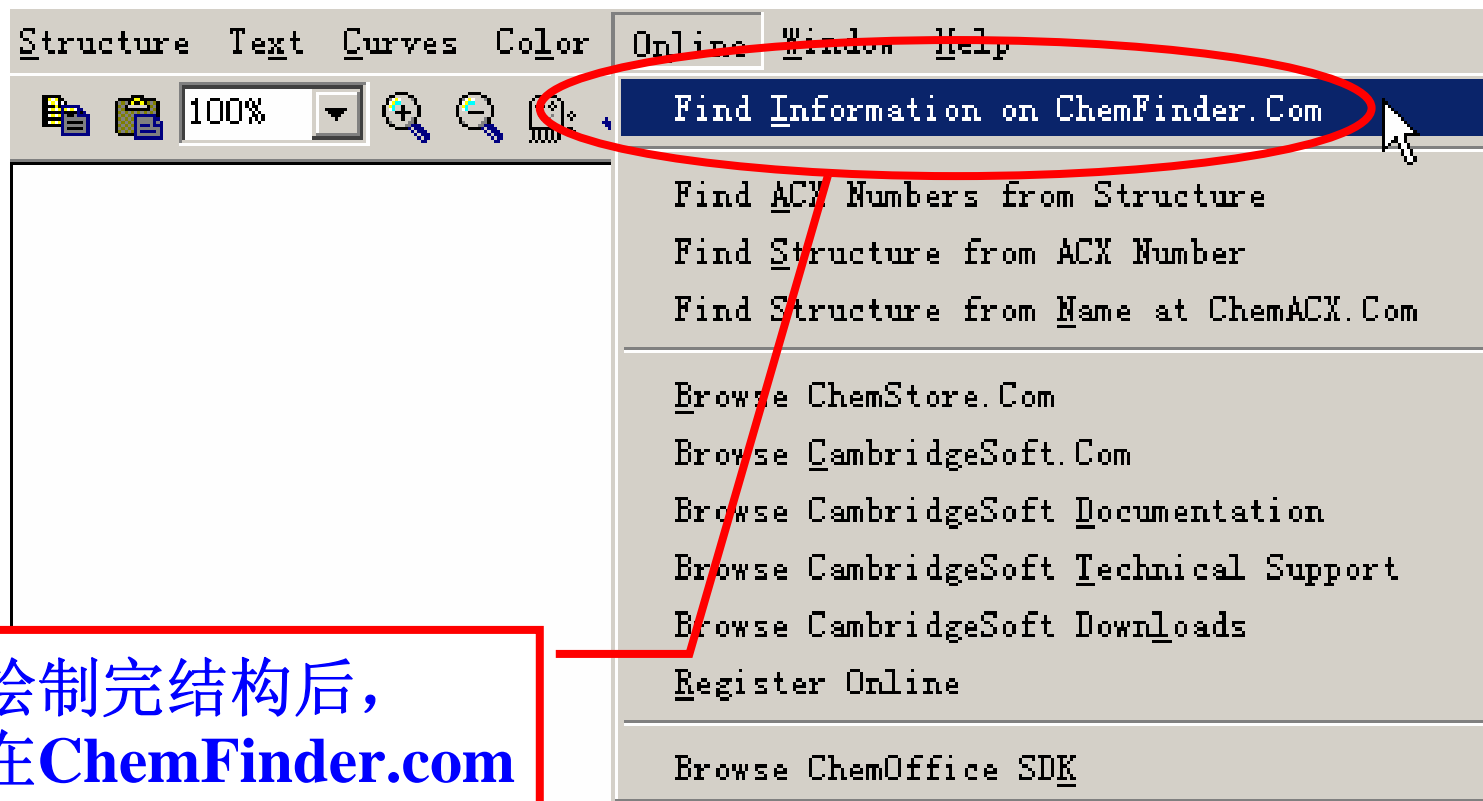
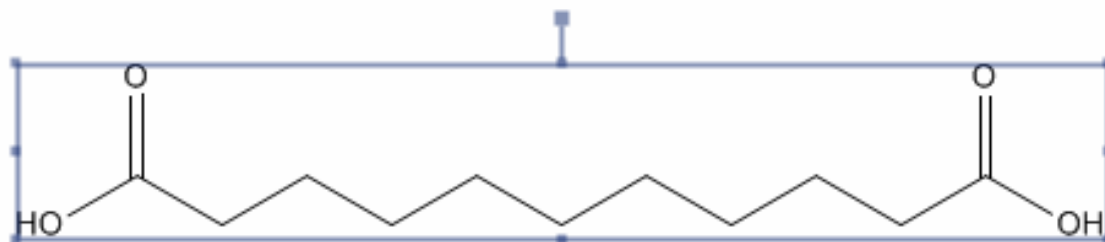


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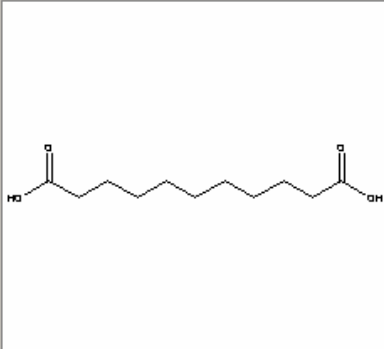
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Synonyms: 1,11-Undecanedioic acid; 1,9-Nonanedicarboxylic acid; Undecanedioic acid;



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Formula	C ₁₁ H ₂₀ O ₄	Molecular Weight	216.2766
CAS RN	1852-04-6	Melting Point (°C)	108 - 110
ACX Number	X1007212-9	Boiling Point (°C)	
Density		Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	
Flash Point (°C)		EPA Code	
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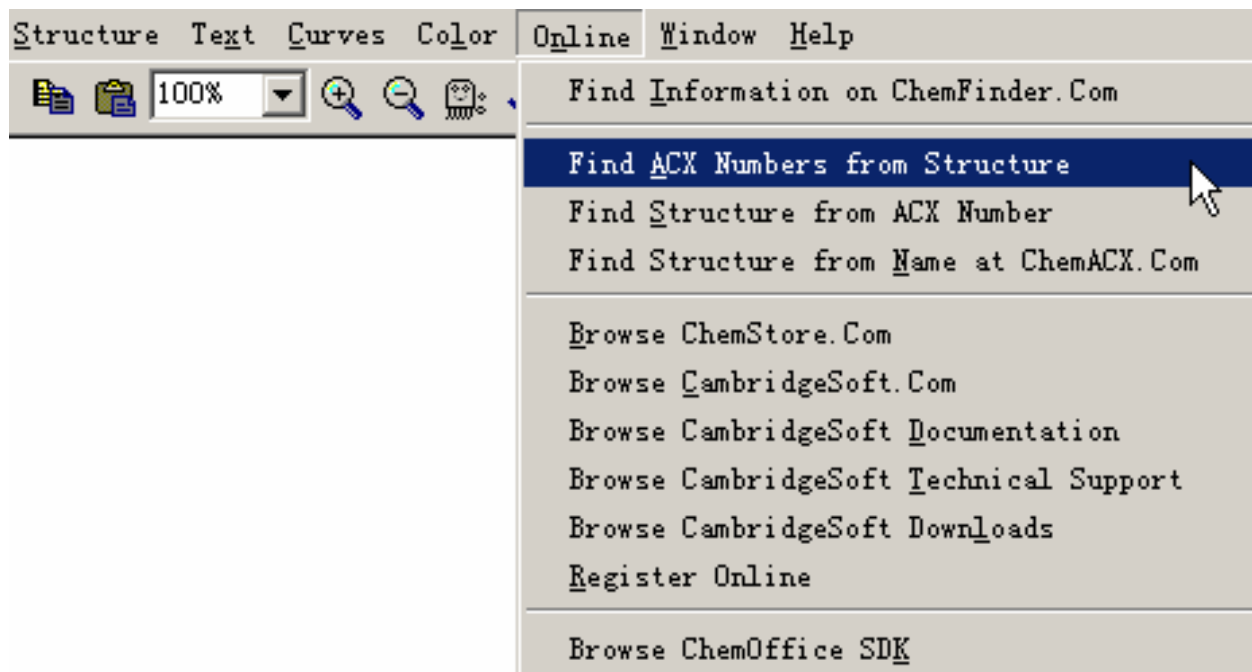
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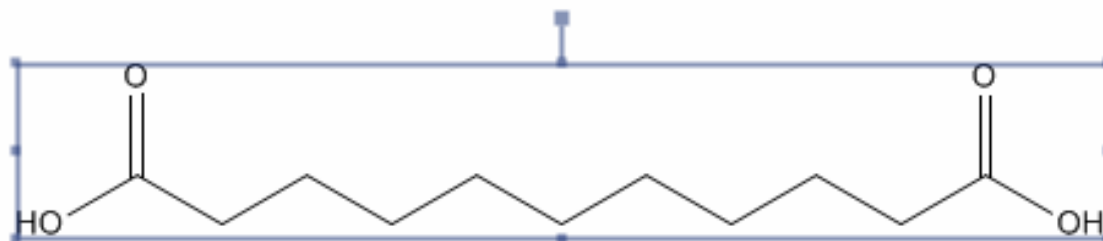
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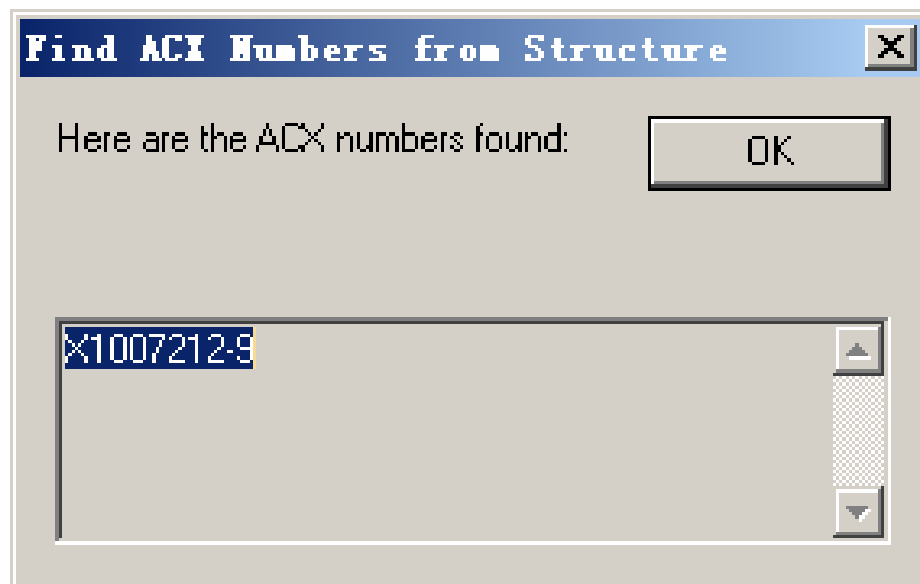
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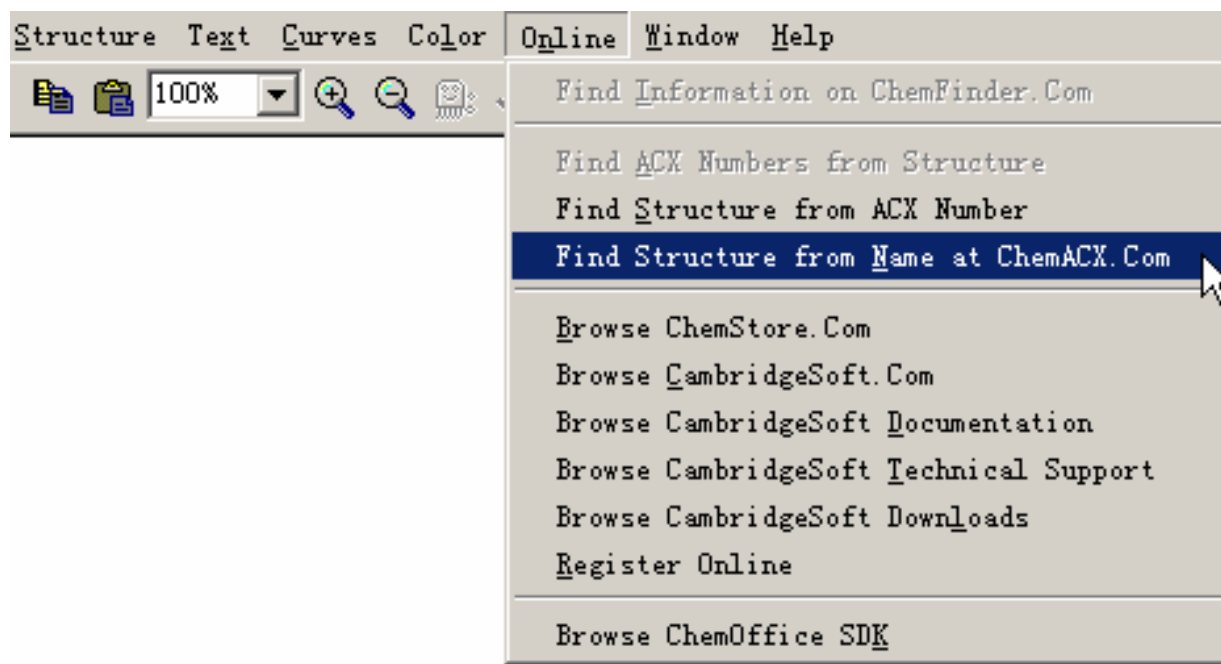


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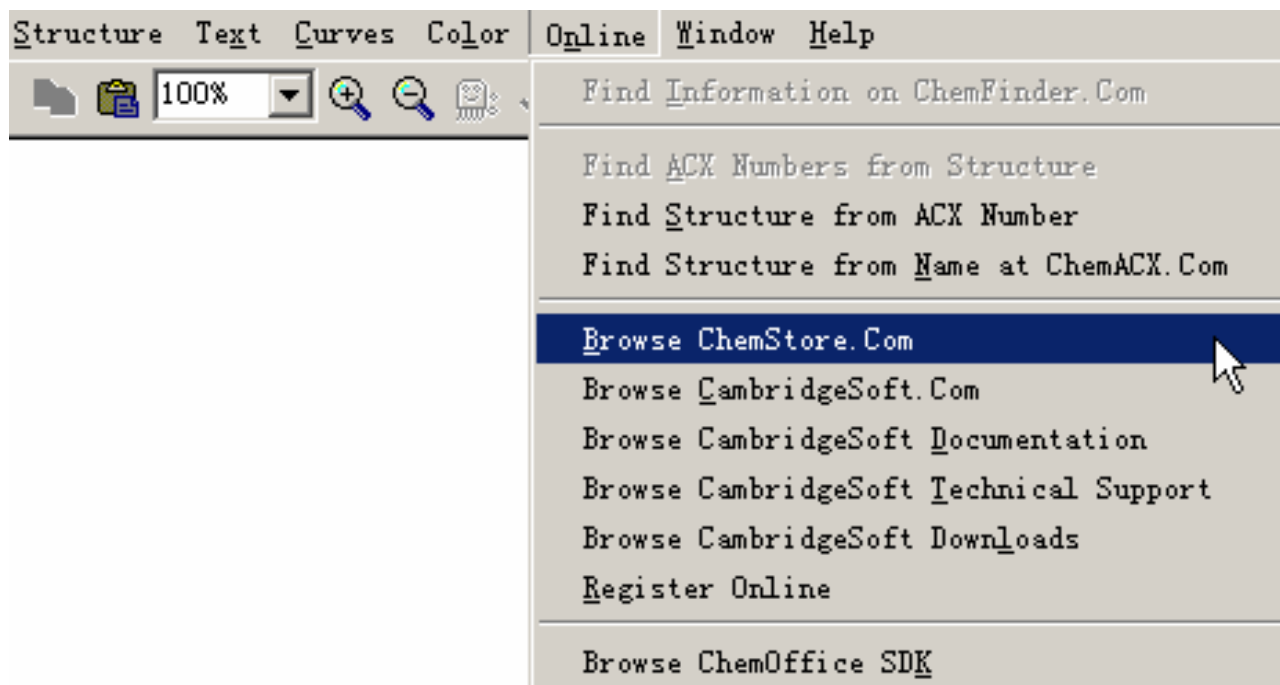
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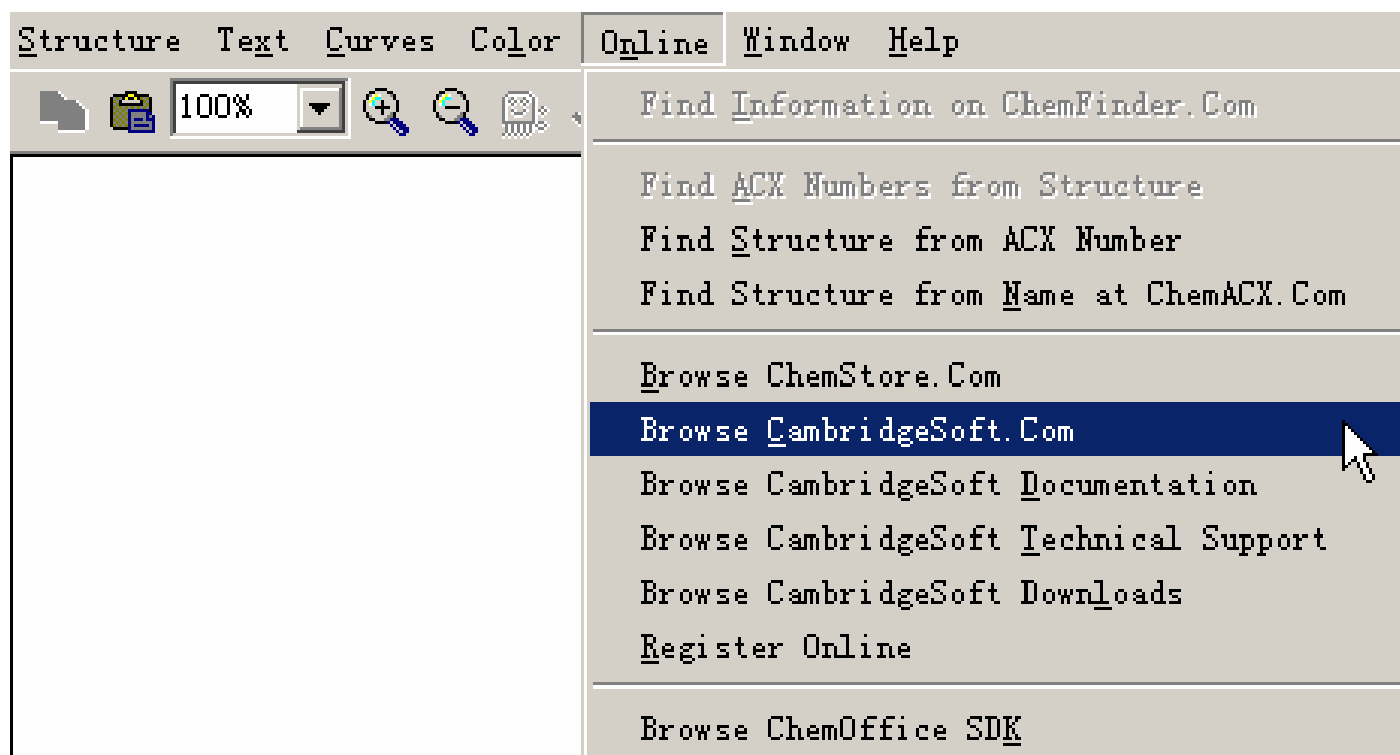
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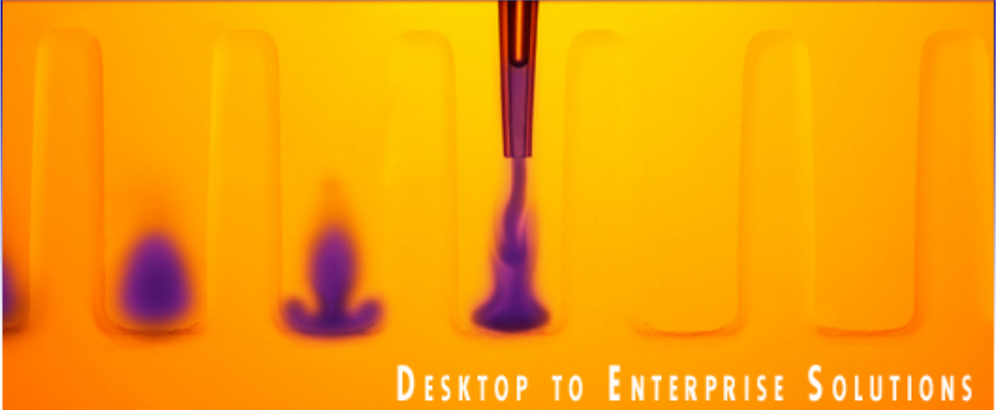
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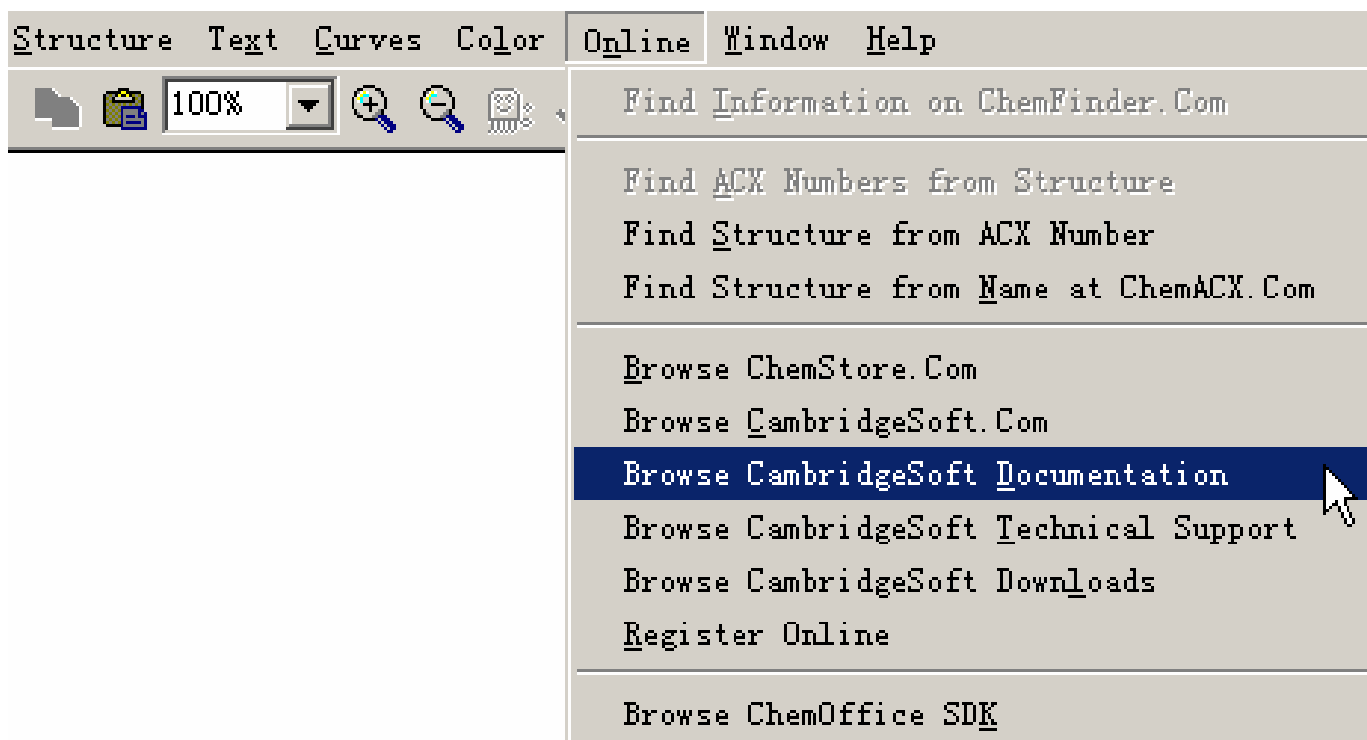
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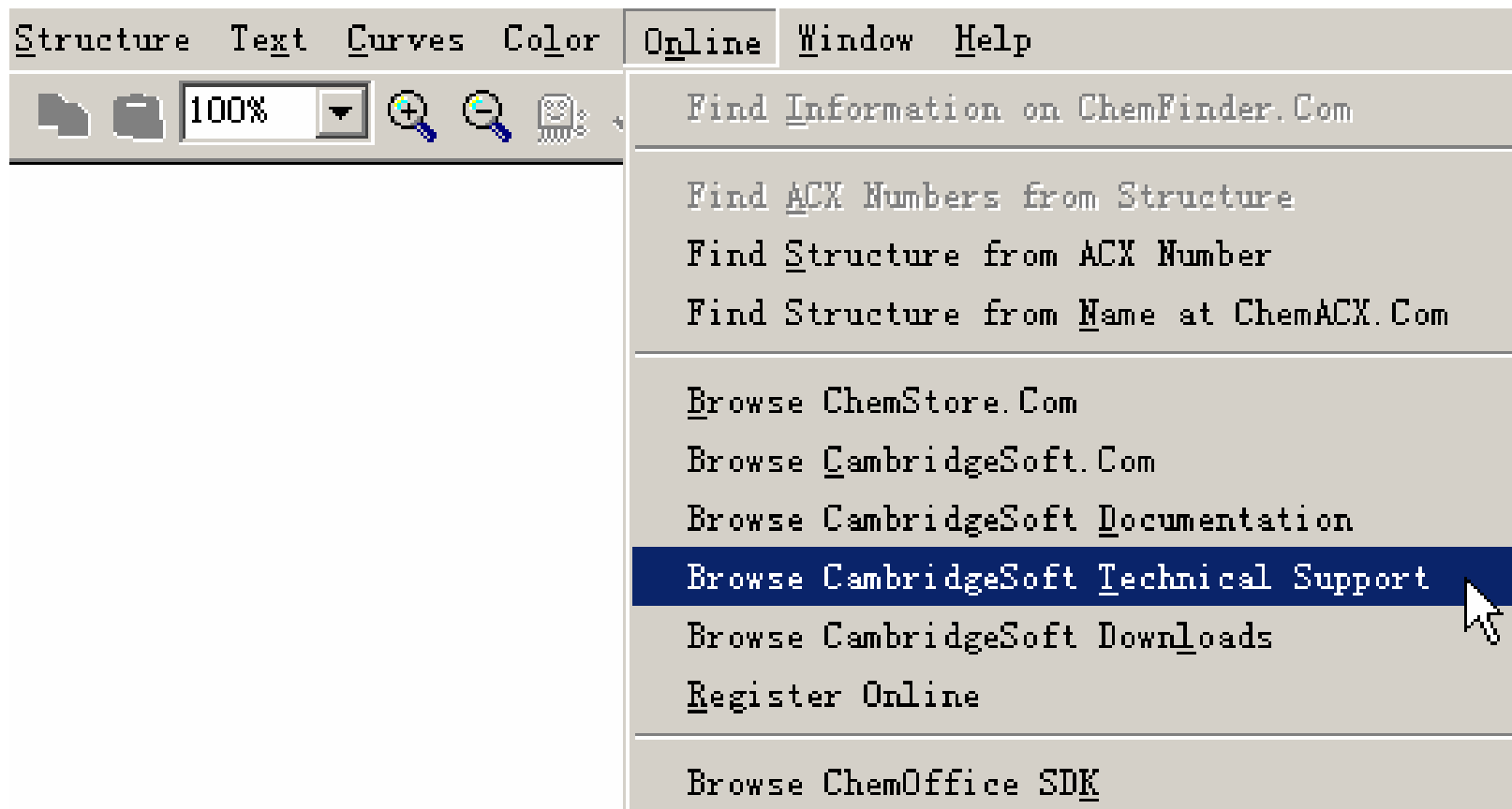
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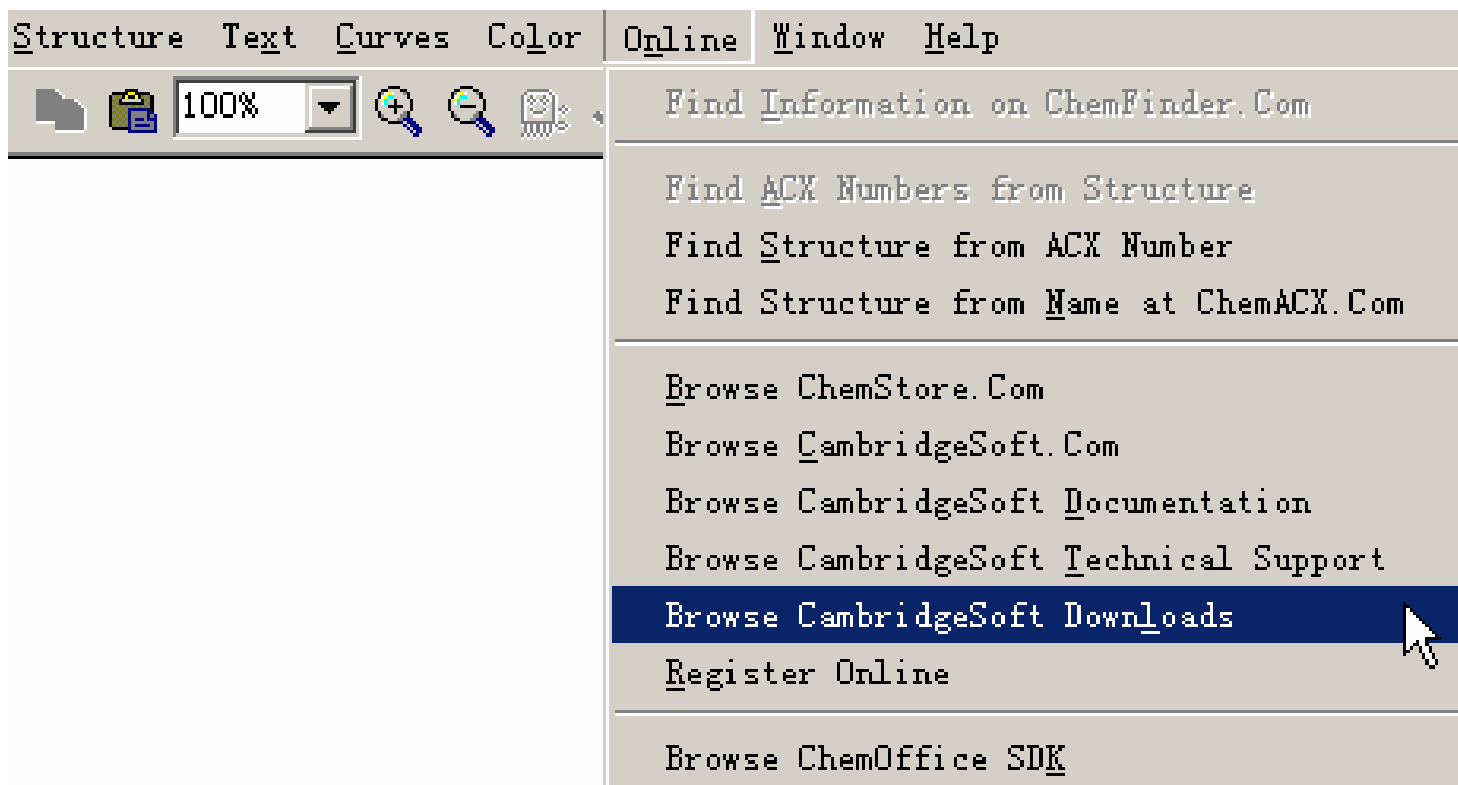
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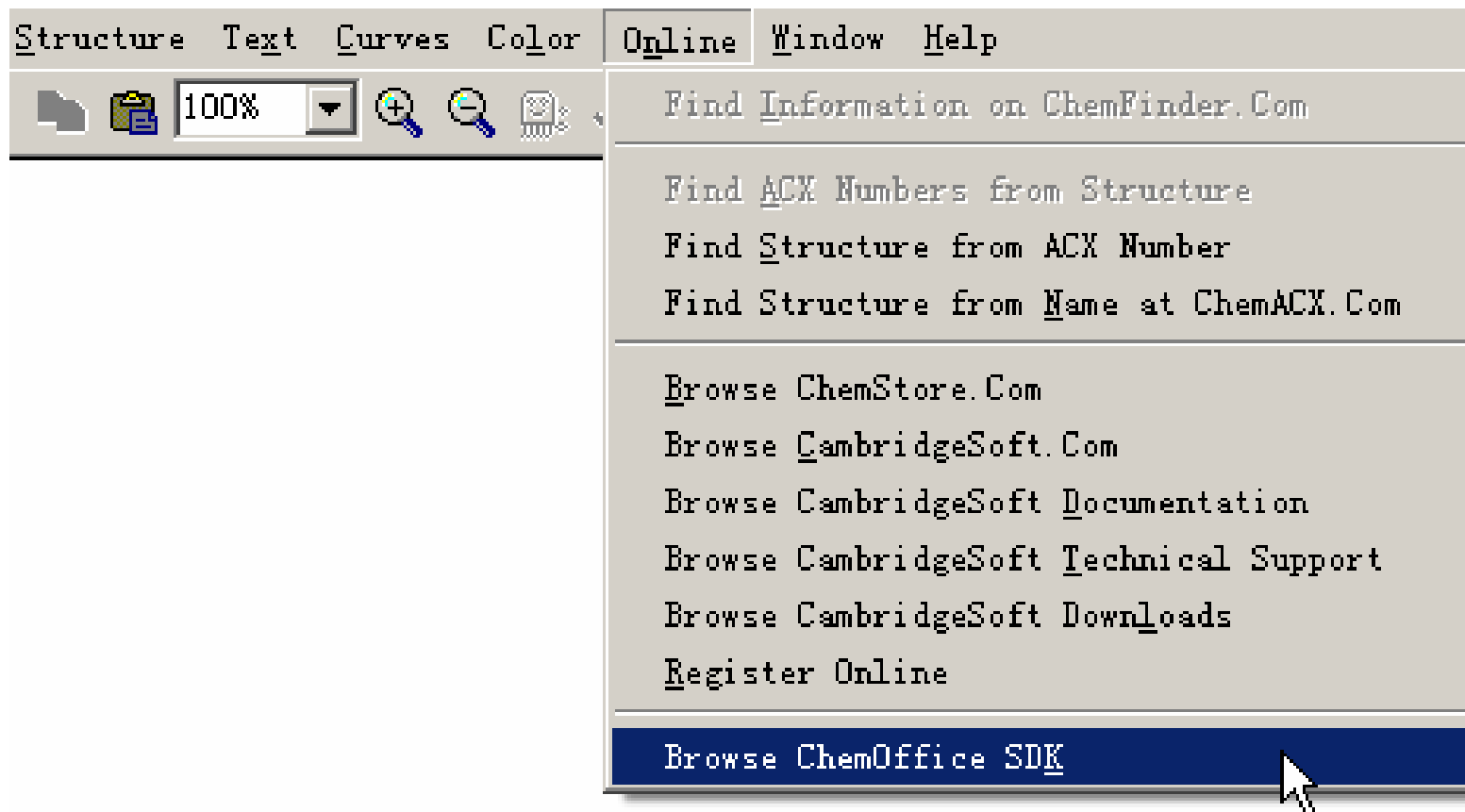
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APIs are available for the following ChemOffice components:

—ChemDraw—

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Automation

Overview of the ChemDraw SDK

Programmatically control ChemDraw for Windows from any script or application written in a language that supports Microsoft's Component Object Model.

Object Linking and Embedding (OLE)

Embed ChemDraw structures in any OLE container. Uses of this functionality range from having editable ChemDraw structures within a Microsoft Word document to using ChemDraw as the structure editor within your own application.

Plug-in

Display and edit ChemDraw models in your web browser.

ChemDraw for Excel

Supported Excel worksheet functions for embedded ChemDraw structures

CDX

Parse **CDX** data (ChemDraw's native file format) in your own application or construct **CDX** data programmatically.

CDXL**ib**

CDXLib was a DLL that could perform file format conversions. It was provided with some copies of ChemDraw 6.0 and 5.0, but is now obsolete and no longer supported or available. File format conversions on Windows should best be performed using Automation (above).

Menu Extensions

Add custom menu commands to ChemDraw

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It is unlikely, however, that this interface will be enhanced in the future. We recommend using [Automation](#) and [OLE Embedding](#) instead.

Details and commands available to the ActiveX version of ChemDraw: ChemDraw Control 7.0

Develop scripts to use Apple Events to send information between applications.

—ChemFinder—

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Overview of ChemFinder SDK and links to other technical documentation.

Programmatically control ChemFinder from any script or application written in a language that supports Microsoft's Component Object Model.

Add custom menu commands to ChemFinder.

Control ChemFinder operations by using ChemFinder's built-in scripting language.

Develop scripts to use Apple Events to send information between applications.

Chemical engine COM object, for retrieving, storing, searching, copying structures

—Chem3D—

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Overview of Chem3D SDK.

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September 28, 2006 - Beginning with Volume 84, pdf versions of Organic Syntheses articles will now be published online immediately upon completion of checking and editing ("OS ASAP").

August 26, 2005 - Beginning with Volume 81, NMR spectra of products can be viewed for all procedures and downloaded as pdf files. The links to NMR spectra are found in the Notes section of each procedure.

July 11, 2005 - Pdf versions of all procedures are now available for all of Organic Syntheses and can be accessed via the contents pages of both annual and collective volumes.

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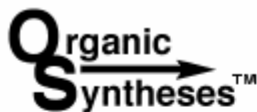
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July 19, 2005 - Safari 1.3 was released as part of MacOS 10.3.9. The latest ChemDraw Plugin is compatible with Safari 1.3. Previous versions of Safari are not compatible with the ChemDraw Plugin. With the release of the ChemDraw Plugin 9.0.1 update Mozilla 1.7.5 and FireFox 1.0.x on Mac OS X are now supported. [Download the ChemDraw Plugin](#)

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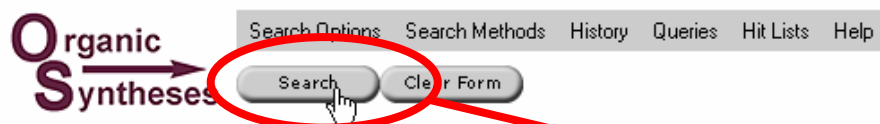
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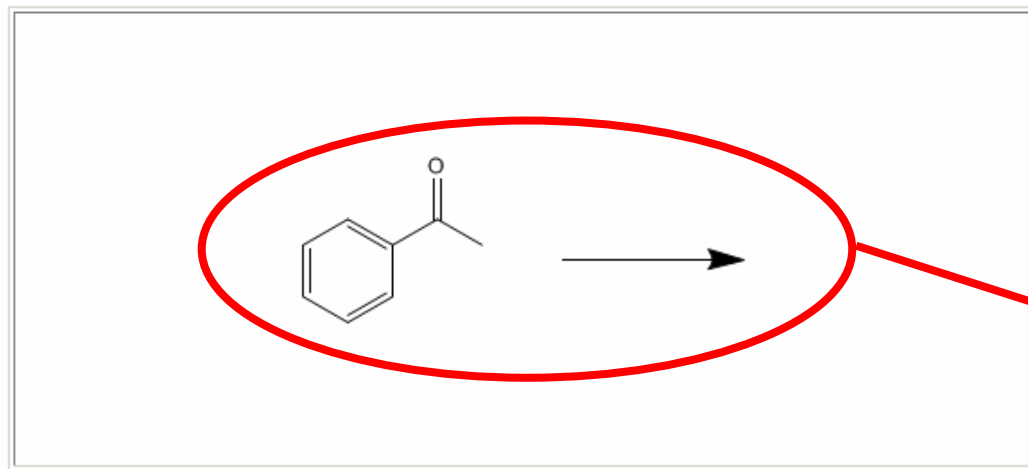
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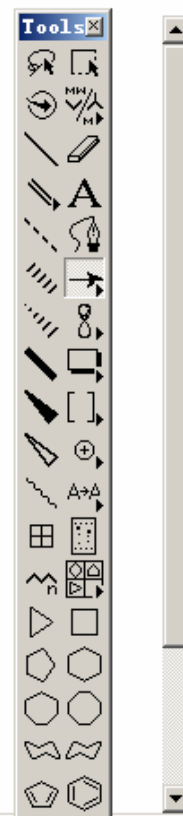
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Submitted by: Kirk L. Sorgi, Cynthia A. Maryanoff, David F. McComsey, and Bruce E. Maryanoff

Checked by: Christopher Deur and Louis S. Hegedus

Published in Annual Volume 75, page 215

Collective Volume 10, page 437



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Checked by: Raghuram S. Tangirala and Dennis P. Curran

Published in Annual Volume 79, page 228

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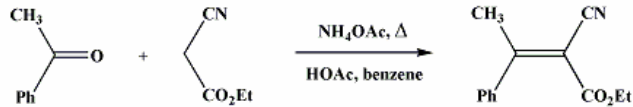
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Organic Syntheses, CV 4, 463

ETHYL (1-PHENYLETHYLIDENE)CYANOACETATE

[Cinnamic acid, α -cyano- β -methyl-, ethyl ester]



Submitted by S. M. McElvain and David H. Clemens¹.
Checked by W. E. Parham, Perry W. Kirklin, Jr., and Wayland E. Noland.

1. Procedure

In a 1-l. three-necked round-bottomed flask fitted with a mechanical stirrer and a constant water separator (Note 1) surmounted by a reflux condenser are placed 120 g. (1 mole) of acetophenone, 113 g. (1 mole) of ethyl cyanoacetate (Note 2), 15.4 g. (0.2 mole) of ammonium acetate, 48.0 g. (0.8 mole) of glacial acetic acid, and 200 ml. of benzene. The reaction mixture is stirred and heated under reflux for 9 hours during which time 28–33 ml. of lower layer is collected in the water separator (Note 3). To the cooled reaction mixture is added 100 ml. of benzene, and the whole is extracted with three 100-ml. portions of water. The combined aqueous layers are extracted with 30 ml. of benzene, which is then added to the organic layer from the previous extraction. Anhydrous magnesium sulfate (15 g.) is added, and, after swirling occasionally for 10 minutes, the mixture is filtered by suction and the magnesium sulfate washed with two 25-ml. portions of benzene. The benzene is removed by distillation at reduced pressure and the residual oil distilled rapidly through a 15-cm. column. The yield of ester is 113–125 g. (52–58%), b.p. 135–160° (0.35 mm.) (Note 4).

2. Notes

1. A typical water separator has been described by Cope et al.²
2. Eastman Kodak white label grade acetophenone and ethyl cyanoacetate are used without further purification. The checkers used Matheson, Coleman, and Bell acetophenone and ethyl cyanoacetate without further purification.
3. The checkers used ammonium acetate which was slightly moist; consequently 33.5–34.5 ml. of lower layer was collected.

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操作过程

注意事项

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3. Discussion

The above procedure is essentially that described by Cope et al.² Ethyl (1-phenylethylidene)cianoacetate has been prepared also by condensing acetophenone with ethyl cyanoacetate in the presence of zinc chloride and aniline,³ and other catalysts.⁴ Additional aralkylidenecyano esters have been prepared by the present procedure.⁵

This preparation is referenced from:

[Org. Syn. Coll. Vol. 4, 662](#)

本文被其它论文引用

References and Notes

参考文献

1. University of Wisconsin, Madison, Wisconsin.
2. Cope, Hofmann, Wyckoff, and Hardenbergh, *J. Am. Chem. Soc.*, **63**, 3452 (1941).
3. Scheiber and Meisel, *Ber.*, **48**, 238 (1915).
4. Cragoe, Robb, and Sprague, *J. Org. Chem.*, **15**, 381 (1950).
5. McElvain and Clemens, *J. Am. Chem. Soc.*, **80**, 3915 (1958).

Appendix

Compounds Referenced (Chemical Abstracts Registry Number)

[acetic acid](#) (64-19-7)
[Benzene](#) (71-43-2)
[ammonium acetate](#) (631-61-8)
[aniline](#) (62-53-3)
[Acetophenone](#) (98-86-2)

本文所用化合物及其CA登记号

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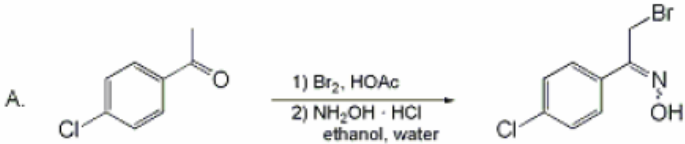
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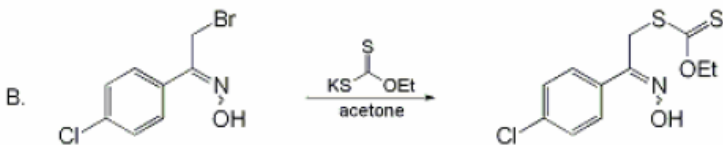
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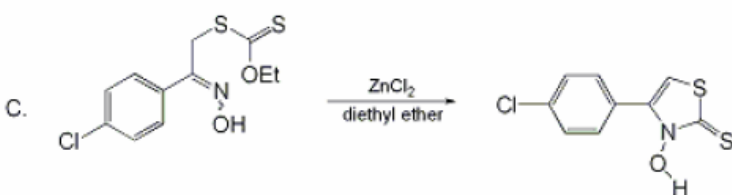
Organic Syntheses, Coll. Vol. 10, p.437 (2004); Vol. 79, p.228 (2002).

N-HYDROXY-4-(p-CHLOROPHENYL)THIAZOLE-2(3H)-THIONE

[2(3H)-Thiazolethione, 4-(4-chlorophenyl)-3-hydroxy-]

A. 

B. 

C. 

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