「第9章 CA on CD」練習問題

問題 A (Browse を使う)

問題 A-1

自分の師事した先生または先輩の論文を一件調べなさい.

解答例 (13 CI on CD で検索)



1. ツールバーの Browse ボタンをクリック.



2. Browse 画面になるので、「Index」欄で Author を選択.

3. 「Find」欄に INAMOTO, N と入力すると, 自動的に索引のその部分が表示されるので, Inamoto, Naoki の行をダブルクリックするか, ハイライトしてから「Search」をクリック.

4. 文献標題の一覧が表示される. 見たい文献標題をダブルクリック.



5. 回答が表示された.

問題 A-2

三菱マテリアル社の特許を一件調べなさい. (Organization)

解答例 (13 CI on CD で検索)



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Browse			Elle Edit Search Iext Window Bookmark Help	- 8 ×
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109 1 3	Mitsubishi Material Silicon Mitsubishi Material Silicon K. K. Mitsubishi Material Silicone K. K.	•	effusion mass spectrometry. Ceramics as advanced industry. Determination of fluorine in rock reference samples using photon activation analysis.	

2. Browse 画面になるので、「Index」欄で Author を選択.

3. 「Find」欄に MITSUBISHI MAT と入力すると、自動的に索引のその部分が表示される. Mitsubishi Materials Corp など該当する行を Shift または Ctrl キーを押しながら選択して ハイライトしたのち「Search」をクリック.

4. 文献標題の一覧が表示される. 見たい文献標題をダブルクリック.



5. 回答が表示された.

問題 B (Search を使う) 問題 B-1

Indomethacin [53-86-1] の毒性 (toxic*) に関する文献を一件調べなさい. (Search)

解答例 (13 CI on CD で検索)

1. ツールバーの Search ボタンをクリック.

Word Search	×	🗱 13Cl on CD with Abstracts – [Search Results – (CAS RN)(53–86–1) and (Word)(TOXIC*)] 📃 🗖 🗙
Type Search Word(s) and choose Search. Si 53-86-1 CA	Search <u>F</u> ields AS RN 🔹	Elle Edit Search Iext Mindow Bookmark Help A X
	/ord	Mark Versust Markall Das Prentis Search COSM Search
and V	/ord 💌	Nn Document Title (124 Documents - 492 Occs) 13 Structural and morphometric analysis of murine small intestine after indomethacin administration.
and V We	/ord	 Effect of anti-inflammatory agents on ricin-induced macrophage toxicity. Mechanism of ebrotidine protection against gastric mucosal injury induced by chappel
and V W	/ord 💌	11 Reversed-phase high-performance liquid chromatographic database of retention indices and UV spectra of toxicologically relevant substances and its interlaboratory use.
word Belationshin	/ord 💌	11 Effect of indomethacin, aspirin, nordihydroguairetic acid, and piperonyl butoxide on cyclophosphamide-induced bladder damage.
© Same Document		 Importance of endogenous prostaglandins for the toxicity of cyclosporin A to rat endocrine and exocrine pancreas?. Standardized HPLC/DAD system, based on retention indexes and spectral library, applicable for systematic toxicological screening. [Erratum to document cited in CA115(11):107963m].
r Exact Order		A comparison or indometnacin with ibuproten on gastrointestinal mucosal integrity in conventional and germ-free rats. Systematic toxicological analysis using HPLC/DAD. Identification power of a standardized HPLC-DAD system for systematic toxicological analysis.
Search Cancel Reset Paste Help	Query List	

2. Search 画面になるので、最初の行に 53-86-1 と入力し、「Search Fields」で CAS RN を 選択.

3. 次の行に TOXIC* と入力し、「Search Fields」で Word を選択、「Search」をクリック.

4. 文献標題の一覧が表示される. 見たい文献標題をダブルクリック.

13Cl on CD with Abstracts - [Structural and morphometric analysis of murine small intest] Image: Display the second	ISCI on CD with Abstracts - [Structural and morphometric analysis of murine small intest
 Structural and morphometric analysis of murine small intestine after indomethacin administration. Ettarh, R. R.; Carr, K. E. (Sch. Biomed. Sci., Queen's Univ. Belfast, Belfast, UK). Scand. J. Gastroenterol., 28(9), 795-802 (English) 1993. CODEN: SJGRA4. ISSN: 0036-5521. DOCUMENT TYPE: Journal CA Section: 1 (Pharmacology) Indomethacin, a nonsteroidal anti-inflammatory drug, induces the formation of gastrointestinal ulceration both in exptl. animals and in humans. A study of indomethacin-induced ulcers in the mouse showed that two doses of indomethacin-each administered s.c. at 85 mg/kg body wt., induced well-defined gastrointestinal ulcers in C57 mice, accompanied by inflammatory and vascular changes in the stomach and small intestine. Maximal damage was obsd. 20 h after the second dose of indomethacin. Morphometric anal. identified changes in all 	Intestine, toxic chemical and physical damage duodenum, indomethacin toxicity to Ulcer gastrointestinal, from indomethacin Intestine, toxic chemical and physical damage ileum, indomethacin toxicity to Intestine, toxic chemical and physical damage jejunum, indomethacin toxicity to Intestine, toxic chemical and physical damage small, indomethacin toxicity to <u>53-86-1</u> toxicity of, to small intestine, ulcer from

5. 回答が表示される. レコードの下の方を見ていくと Indomethacin の CAS 登録番号 [53-86-1] の項目があり、 ヒットした語は赤くハイライトされている.

問題 B-2

Dioxin の焼却 (incinerat*) に関する日本語の文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの Search ボタンをクリック.

Word Search	×	👫 13Cl on CD with Abstracts - [Search Results - (Word)(DIOXIN*) and (Word)(INCINERAT*) 💶 🗖 🗙
Type Search Word(s) and choose Search.	Search <u>F</u> ields Word	Elowe Search Iext Window Bookmark Help
and VINCINERAT*	Word	Mask Linner Maskal Ever Prettie Servet DOSME Search
and JAPANESE	Language 💌	Nn Document Title (38 Documents – 329 Ocrs.) 19 Controlling technology of dioxins emissions in municipal solid waste incinerators.
and 💌	Word	 Control of dioxins in MSW fluidized bed incineration plant. Reduction of dioxin emitted from incineration plant for municipal solid waste. Combustion technology for roducing RCDDs and RCDDs in
and v	Word 💌	15 Investigation of solid waste incinerator, 15 Investigation on sources and formation mechanisms of dioxins in municipal solid waste incinerators.
and 💌	Word 💌	13 Simultaneous removal of mercury and dioxins from incinerator for municipal wastes
Word Relationship		11 Formation and dechlorination of PCDDs/PCDFs on ESP fly ash
© Same Document		10 Behavior of chlorinated organics in a municipal solid waste incinerator
C Same Paragraph		10 Environmental pollution caused by dioxin generated from municipal solid waste incinerators
C Words Apart 9		9 Decomposition of dioxins in fly ash by hydrothermal treatment.
Exact Order		9 freshwater culture ponds pollution by dioxin and related compounds near incineration sites for metal reclamation in
		Taiwan, Republic of China.
		9 Analysis of dioxins and chlorophenols in flue gas from the municipal solid waste incinerator.
Search Cancel Reset Paste Help	Query List	۲ ۲

2. Search 画面になるので、最初の行に DIOXIN* と入力し、「Search Fields」で Word を選択.

3. 次の行に INCINERAT* と入力し、「Search Fields」で Word を選択.

4. 次の行に JAPANESE と入力し、「Search Fields」で Language を選択、「Search」をクリック.

5. 文献標題の一覧が表示される. 見たい文献標題をダブルクリック.



6. 回答が表示された. ヒットした語は赤くハイライトされている.

問題 B-3

野依良治 (Noyori Ryoji) 先生のケトンの立体選択的水素化 (stereoselective hydrogenation) に 関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの Search ボタンをクリック.

Word Search	×	🚰 13Cl on CD with Abstracts - [Search Results - (Author)(NOYORI, R*) and (Word)(KETON 💻 🔲 🗙
Type Search Word(s) and choose Search. Search NOYORI, R*	ch <u>F</u> ields	Elle Edit Search Iext Window Bookmark Help
and KETONE Word	-	
and V Word	•	No Licciment life (15 Linciments – 84 Liccs) Asymmetric transfer hydrogenation of olefins and ketones catalyzed by metal complexes.
and I Word	V	Practical Enantioselective Hydrogenation of Aromatic Ketones. Ruthenium(II)-Catalyzed Asymmetric Transfer Hydrogenation of Ketones Using a Formic Acid-Triethylamine Mixture.
and v Word	-	A Ruthenium(ii) Complex with a C2-Symmetric Diphosphine/Diamine Tetradentate Ligand for Asymmetric Transfer Hydrogenation of Aromatic Ketones.
and V Word	•	Amino alcohol effects on the ruthenium(II)-catalyzed asymmetric
<u>W</u> ord Relationship		transfer hydrogenation of ketones in propan-2-ol. 7 Asymmetric Transfer Hydrogenation of Aromatic Ketones Catalyzed by Chiral Ruthenium(II) Complexes.
ົ Same <u>D</u> ocument ⊂ Same Paragraph		6 Conjugate addition of diorganozincs to a,b-unsaturated ketones catalyzed by a copper(I)-sulfonamide combined system.
C Words Apart 9		4 Practical synthesis of chiral secondary alcohols for the preparation of ferroelectric liquid crystals.
		3 Preferential hydrogenation of aldehydes and ketones 3 Preparation of silve ethers. 1 Asymmetric hydrogenation. 1 Conjugate addition-enolate-trapping reactions.
<u>Search</u> <u>Cancel</u> <u>R</u> eset <u>Paste</u> <u>H</u> elp	Query List	

2. Search 画面になるので、最初の行に NOYORI, R* と入力し、「Search Fields」で Author を選択.

3. 次の行に KETONE* と入力し、「Search Fields」で Word を選択、「Search」をクリック.

4. 文献標題の一覧が表示される. 見たい文献標題をダブルクリック. ここでもし文献が多 すぎたなら, Search 画面に戻って次の行に STEREOSELECTIVE などを入力すればよい.



5. 回答が表示された.

問題 B-4

導電性 (electroconduct*) ポリマー (polymer*) に関する特許を一件調べなさい. (テキストには conduct* とあるが, electroconduct* に訂正, polym* では時間がかかるので polymer* に訂正, また「日本特許」は「特許」に訂正)

解答例 (13 CI on CD で検索)

1. ツールバーの Search ボタンをクリック.

🕆 Word Search	×	🚰 13Cl on CD with Abstracts - [Search Results - (Word)(ELECTROCONDUCT*) and (Word)(💻	
Type Search Word(s) and choose Search.	Search <u>F</u> ields Word	Elle Edit Search Iext Window Bookmark Help	8×
and r POLYMER*	Word	Mark Unrest NakAl Des Prettie Search Statistic Search	
and PATENT	Doc. Type	No Document little (122 Documents – 998 Occs) 75 Polymerizable pyrroles and thiophenes used for electroconductive polymers and electrode active substances.	
and	Word 💌	54 Electroconductive polymers from unsaturated derivative of 11F, TCNQ and DCQDI (dicyanoquinondilimine) monomers and preparation of monomers therefor.	
and	Word	 27 Gravure coaling processes. 23 Compositions for electroconductive elastomers with good adhesion property and durability. 24 Endmenduation and the set of the	
and	Word 💌	16 Anisotropic electroconductive adhesive pastes and conductive	
Word Relationship		15 preparation of N-I(cyclo)alkyl)-3-thienylacetamides for electroconductive polymer films.	
© Same Document		14 Polymer compositions for electroconductive bearings. 14 Electroconductive cyclic olefin polymer compositions.	
C Words Apart 9		14 Electroconductive acrylic polyurethane lacquers for preventing electric wind.	
Exact Order		 Electroconductive silicone rubber compositions. Photocurable electroconductive acrylic coaling compositions. Stabilization of ion-selective electrode by including 	
		ion-conductive polymer and electroconductive polymer in its inner solution.	
Search Cancel Reset Paste Help	Query List	3	Þ

2. Search 画面になるので、最初の行に ELECTROCONDUCT* と入力し、「Search Fields」 で Word を選択.

3. 次の行に POLYMER* と入力し、「Search Fields」で Word を選択.

4. 次の行に PATENT と入力し、「Search Fields」で Doc. Type を選択、「Search」をクリック.

5. 文献標題の一覧が表示される. 見たい文献標題をダブルクリック.



6. 回答が表示された. ヒットした語は赤くハイ ライトされている.

問題 C (Formula Hierarchy を使う)

問題 C-1

SbF5 が触媒 (catalysis, catalytic など) として作用することに関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)



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Find F5SB Find Document Expand Collapse	Find F5SB Find Document Expand Collapse
+ F5OV	- F5Sb
+ FSOXe	+ Antimonate
+ F5P	+ Antimony fluoride
+ F5Pd2Rb	+ Benzeneacetonitrile
+ FSPTi	+ Carbonic difluoride
+ F5Re	+ Fluorine
+ F5Rh	+ Graphite
+ F5Ru	+ Guandine
+ F53	+ Hypochlorous acid
+ 552	+ Propanedinitrile
+ F5Sb2	+ Propenenitrile
+ F5Sc	+ Silanecarbonitrile
+ F5Se	+ Stibine
+ F531	4
+ F59n2	4
+ F5Sn3	4
+ F5SVV	4
+ F5Ta	4
+ F5Tb -	4
+ F516 + F570	
	<u>۲</u>

2. Formula Hierarchy の画面になるので, F5SB と入力すると, 自動的に索引のその部分に進むので, F5SB の行をダブルクリックするか, ハイライトして「Expand」をクリック.

3. F5SB の項にある Antimony fluoride の行をダブルクリックするか, ハイライトして「Expand」をクリック.

Al		
1301 on CD with Abstracts - [Formula Hierarchy]	👫 13Cl on CD with Abstracts – [Antimony fluoride (SbF5) [7783–70–2]]	_ 🗆 ×
	Eile Edit Search Text Window Bookmark Help	_ 8 ×
Browne Search Subst Form Goto Security Statistics	Bowe Search Subar Form Decom Decom Sector Fin Save Hep	
Find F5SB Find Document Expand Collapse		
- F33D	No. Document Title (205 Documents - 205 Occs.)	
- Antimony fluoride (SbE5) (7/28-7/0-2) Antimony fluoride (SbE5) (MODIFIED) + Antimony fluoride (SbE5) (MODIFIED)	 The foom temperature exidation of gold, ruthenium, esmium, indium, plathum, orpalladium with fluorine in anhydrous hydrogen fluoride. Conductivity enhancement of CaF2 by grain boundary activation with Lewis acids. The preparation and characterization of SeCI3SbF6, improved syntheses of MCI3KA/SbJF6 (M = 3, Se), and the x-ray crystal structure determination of SeCI3ASF6 and a new phase of SeCIASF6 and a new phase of SeCIASF6 and a new phase of Contributions to the chemistry of bromine trifluoride. Part 2. Bis(pentafluorophenylbromonium cations with weak nucleophilic fluoroelementate anions. Solvolysis reactions in liquid antimony(V) fluoride. A convenient and versatile synthetic method. NationSBJF5/Solid Supperdict dataysta. Manufacture of antistatic-layered support for silver halide photographic material having improved stability. The electrophilic activation pathways for hobitane in HF-SbF5 Diffurding activation pathways for hobitane in HF-SbF5 	
x	spectroscopic characterization, and crystal structure of HC(OH)2+AsF6	
		,000000000 B

4. Antimony fluoride の項にある Antimony fluoride (SBF5) [7783-70-2] の行をダブルクリック するか, ハイライトして「Document」をクリック.

5. 文献標題の一覧が表示される. Catalysts の語のある文献標題をダブルクリック.

🎇 13Cl on CD with Abstracts – [Nafion–SbF5 solid superacid catalysts.]		👫 13Cl on CD with Abstracts – [Nafion-SbF5 solid superacid catalysts.]
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125:304637		<u>540-84-1</u>
Nafion-SbF ₅ solid superacid catalysts.		formation of; solid superacid catalysts prepd. from SbCl ₅ and Nafion
Wen, Linsheng; Lu, Huijuan; Wang, Runwei (Dep. Chem., Jilin Univ.,		perfluorinated resin for hydrocarbon isomerization and
Changchun 130023, Peop. Rep. China). Jilin Daxue Ziran Kexue Xueba	о,	alkylation
(2), 83-86 (Chinese) 1996. CODEN: CLTTDI. ISSN: 0529-0279.		<u>75-28-5</u>
DOCUMENT TYPE: Journal CA Section: 51 (Fossil Fuels, Derivatives,		<u>106-98-9</u> , reactions
and Related Products)		<u>109-66-0</u> , reactions
A superacid polymer was prepd. by reaction of a perfluorinated		model compd., conversion of; solid superacid catalysts prepd. from
ion-exchange polymer with SbF ₅ . Solid superacid strength of acid sites		SbCl ₅ and Nafion perfluorinated resin for hydrocarbon
(H_0) was in the range of -14.52to -16.12. N-pentane was converted to		isomerization and alkylation
isopentane and isobutane, and butene was alkylated with isobutane (to		<u>7783-70-2</u>
isooctane) at 20° when n-pentane and butene were brought into contac		solid superacid catalysts prepd. from SbCl ₅ and Nafion perfluorinated
with the prepd. solid superacid. The electron binding energy of Sb _{2/3} in		resin for hydrocarbon isomerization and alkylation
SbF ₅ was studied by XPS.		
	-	

6. 回答が表示される. レコードの下の方を見ていくと SbF5 の CAS 登録番号 [7783-70-2] の 項目がある.

問題 C-2

C₆₀の Cobalt との錯体に関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの **」** ボタンをクリック.

🙀 13Cl on CD with Abstracts – [Formula Hierarchy] 📃 🗖 💈	🕻 👫 13Cl on CD with Abstracts – [Formula Hierarchy] 📃 🗖 🗙
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Browne South Form Dar La South Form	Browne Seech Sutt Form Score Line Score Help
Find C60 Find Document Expand Collapse	Find C60 Find Document Expand Collapse
+ C5S7	- C60
+ C5Sc	+ Carbazole
+ C5SI	+ Carbon
+ C5512	+ Carbon dioxide
	+ Carbon disuinde
	+ Carbon monoxide
+ C5V6	+ Chionae
	+ Chromium
- 05	+ Cobaltacana
+ C6 35Ag	+ Cobaltocenium
+ C6 9H5 2B	+ Cyclobutabenzothiophene
+ C60	+ Cyclodextrin
+ C600	+ Cyclohexacontatriacontavne
+ C6000	+ Cyclohexane
+ C600H1202	+ Cyclopentaditellurole
+ C600H502O71Si60	+ Cyclopentadithiole
+ C600H720Au32Cl32N62O32P32	+ Decane
+ C600H720N62O32P32 -	+ Deuterium
+ C6020	+ Diazabicyclooctane
+ C608	+ Dibenzofluoranthene
+ C6080	+ Dindolotriphenodioxazine
+ C6UAC	+ Diselencie
+ C6UAG2	+ Uisilane
+ COUACS	L + Ditellurolotniophene

2. Formula Hierarchy の画面になるので, C60 と入力すると, 自動的に索引のその部分に進むので, C60 の行をダブルクリックするか, ハイライトして「Expand」をクリック.

3. C60 の項にある Cobaltocene の行 (Cobaltocenium でもよい) をダブルクリックするか, ハイライトして「Expand」をクリック.

🚮 13Cl on CD with Abstracts – [Formula Hierarchy]	_ 🗆 ×	🚰 13Cl on CD with Abstracts - [Formula Hierarchy]
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Biowee Seach Subt Form Good Newton Stocks Birld Street Heb		Biowe Seach State Form Court weather States Form States
Find C60 Find Document Expand Collapse		Find C60 Find Document Expand Collapse
- C60		- C60
- Cobaltocene		- Cobaltocene
		compd. with carbon disulfide and [5.6]fullerene-C60-lh (1:1:1) [160927
		compd. with [5,6]fullerene-C60-Ih [161985-54-2]
		compd. with [5,6]fullerene-C60-Ih (1:1) [148948-59-8]
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र	Þ	

4. Cobaltocene の項にある Cobaltocene (MODIFIED) の行をダブルクリックするか, ハイラ イトして「Expand」をクリック.

5. Cobaltocene (MODIFIED) の項にある compd with [5,6]fullerene-C60-lh [161985-54-2] の行 をダブルクリックするか, ハイライトして「Document」をクリック.

🎇 1 3Cl on CD with Abstracts – [Structure of fullerene films and their metallocene doping.] 💦 💶 💌	🎇 13Cl on CD with Abstracts – [Structure of fullerene films and their metallocene doping.] 👘 💶 💌
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122:227115	
Structure of fullerene films and their metallocene doping.	Keywords
Domrachev, G. A.; Kaverin, B. S.; Domracheva, E. G.; Gusev, S. A.;	
Ketkov, S. Yu.; Karnatsevich, V. L.; Kirillov, A. I.; Vasilevskaya, I. L.;	deposition fullerene film cobaltocene ferrocene doped
Lopatin, M. A. (Inst. Organomet. Chem., Russian Acad. Sci., Nizhniy	Index Entrino
1004 CODEN: IASKEA DOCUMENT TYPE: Journal CA Section: 75	inuex Enuies
(Crystallography and Liquid Crystals) Section cross-reference(s): 78	99685-96-8
By Langmuir method the hcp. C_{co} and C_{ro} films were prepd. and examd.	115383-22-7
by the electron microscopy and electronog. The vacuum deposition of	deposition and structure of ferrocene- and cobaltocene-doped films
C_{60} + C_{70} mixt. results in forming film in small grain size and with distorted	of
C _{en} hcp. structure. The simultaneous deposition of C _{en} and ferrocene	<u>146788-89-8</u>
results in forming film with changed morphol, and electron diffraction	<u>161985-54-2</u>
patterns, which contains variable ferrocene amt. depending on expt.	deposition and structure of films of
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I F	1

6. 文献が一件しかなかったので, 直接回答が表示された. レコードの下の方を見ていくとこの化 合物の CAS 登録番号 [161985-54-2] の項目がある.

問題 C-3

C₈H₁₂N₂の分子式をもち,直鎖 (octane) の骨格をもつ化合物の文献を一件調べなさい.

解答例 (13 CI on CD で検索)



13Cl on CD with Abstracts – [Formula Hierarchy] _ 🗆 × _ 8 × Bo Search Subst Form Browse Search Subst Form Goto NQ. ? ? 8 . Find C8H12N2 nt Expand C8H12N Do ent Expand Collapse C8H12N2 + Naphthalenedicarboxylic acid + Nickelate + Nonanedioic acid + Octadiynediamine + Octane
 Final
 Contract

 + C8H12Mo2O11
 +

 + C8H12Mo2O18
 +

 + C8H12Mo2N208
 +

 + C8H12Mo2N4026
 +

 + C8H12Mo12010
 +

 + C8H12Mo12010
 +

 + C8H12Mo12010
 +

 + C8H12Mo12010
 +

 + C8H12N01201
 +

 + C8H12N12018
 +

 + C8H12N12018
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 + C8H12N12018
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 + C8H12N14012
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 Jasury rediatrille
 Octane dioic acid
 Octanedioic acid
 Octatedioic acid
 Octatedioic acid
 Octatedioic acid
 Oxaticycloheptane
 Oxathiolanethione
 Oxiranemethanamine
 Oxiranemethanol
 Oxiranone C8H12N14G12 C8H12N2 C8H12N2NiO43 - C8H12A/22H12A2H12A2H12A2A + C8H12A2A0A452 + C8H12A22010Pt + C8H12A22010Pt + C8H12A22020 + C8H12A22023V6 + C8H12A220284 + C8H12A22028 + C8H12A220284 + C8H12A220284 + C8H12A220284 xonanone alladate entadienenitrile entanediamine entanediamine eryto dipyrantetrone henol hosphine oxide hosphonic dichloride jperazineethanamine iperidineacetonitrile Pe Ph Ph Ph 1

2. Formula Hierarchy の画面になるので、C8H12N2 と入力すると、自動的に索引のその部分に進むので、C8H12N2 の行をダブルクリックするか、ハイライトして「Expand」をクリック.

3. C8H12N2 の項にある Octanedinitrile の行 (Octatetraenediamine でもよい) をダブルクリックするか, ハイライトして「Expand」をクリック.

🎇 13Cl on CD with Abstracts – [Formula Hierarchy]	_ 🗆 ×	🚰 13Cl on CD with Abstracts - [Octanedinitrile [629-40-3]]	
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Find C8H12N2 Find Document Expand Collapse		Mark Urmank NakAll Dear PrintMi Savehit 1051Mis	
- C8H12N2		No. Document Title (15 Documents - 15 Occs.)	
- Octanedinitrile [629-40-3]		1 Bisimidazolines and their use for coupling of carboxy-terminated	
+ Octanedinitrile (MODIFIED)		oligoamides to give polyamides.	
		1 Organotin-functionalized poly(tetrazoles) including the	
		supramolecular structure of 1.6-(2-Bu3SnN4C)2(CH2)6.	
		1 Use of joint toxic response to define the primary mode of toxic	
		action for diverse industrial organic chemicals.	
		1 Electrode consisting of an iron-containing core and a	
		lead-containing coating.	
		1 Gas phase prepn. of cyclic ketones from dinitriles and water.	
		1 Potential antitumor agents. 23. Cytotoxic and differentiating	
		1 Solocities by drog englished dinitriles to aminomitriles on Bapey	
		cales and the cales and the cales and the cales of the ca	
		1 Surface characterization and catalytic properties of several	
		graphite supported potassium-free and potassium-doped nickel	
		catalysts.	
		1 Process for the preparation of 9,9-bis(4-hydroxyphenyl)fluorene.	
		Preparation of aliphatic primary amines by hydrogenation of ritig a set of the set o	
		nitries.	
		liquid nitriles by femtosecond time-resolved coherent anti-Stokes	
	_	Raman scattering.	
	~		•
4	Þ	4	Þ

4. Octanedinitrile の項にある Octanedinitrile [629-40-3] の行をダブルクリックするか、ハイ ライトして「Document」をクリック.

5. 文献標題の一覧が表示されるので, 見たい文献の標題をダブルクリック.

🕵 13Cl on CD with Abstracts – [Selective hydrogenation of dinitriles to aminonitriles on Ran 🔔 🗖 🗙	👫 13Cl on CD with Abstracts – [Selective hydrogenation of dinitriles to aminonitriles on Ran 💶 🗖 🗙
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Trevidir Newtrik Piev Next Mark Urrant D005	French Newth Prev Newt Mark Unreads
120:191096	formation of, in nickel-catalyzed hydrogenation of adiponitrile
Selective hydrogenation of dinitriles to aminonitriles on Raney catalysts.	<u>1333-74-0</u> , unspecified
Ziemecki, S. B. (E. I. Du Pont and Co., Wilmington, DE 19880-0262,	hydrogenation, of dinitriles to amino nitriles, catalytic
USA). Stud. Surf. Sci. Catal., 78(Heterogeneous Catalysis and Fine	<u>110-61-2</u>
Chemicals III), 283-90 (English) 1993. CODEN: SSCTDM. ISSN:	nickel-catalyzed hydrogenation of, amino nitrile and dimers from
0167-2991. DOCUMENT TYPE: Journal CA Section: 23 (Aliphatic	<u>111-69-3</u>
Compounds) Section cross-reference(s): 22, 67	<u>544-13-8</u>
High selectivity to amino nitriles can be achieved when liqphase	<u>629-40-3</u>
hydrogenation of dinitriles over Raney catalysts is carried out in the	646-20-8
presence of an excess of methanol (contg. an inorg. base) or ammonia.	<u>1871-96-1</u>
Results obtained by hydrogenation of dinitriles contg. from 4	<u>4543-66-2</u>
(succinonitrile) to 12 (dodecanedinitrile) carbon atoms are compared.	nickel-catalyzed hydrogenation of, amino nitrile from
Obsd. trends are tentatively explained by invoking an intramol.	4553-62-2
transformation of the amino nitrile mols. in the preferred reaction media.	nickel-catalyzed hydrogenation of, amino nitriles from
Formation of ring structures (existence of which is supported by IR	2432-74-8
	I P

6. 回答が表示される. レコードの下の方を見ていくと Octanedinitrile の CAS 登録番号 [629-40-3] の項目がある.

問題 C-4

Ozone (O₃) の生物学的影響 (Biological studies) に関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの **Form** ボタンをクリック.

🕼 13Cl on CD with Abstracts – [Formula Hierarchy]	🐔 13Cl on CD with Abstracts – [Formula Hierarchy]
File Edit Search Text Window Bookmark Help	Eile Edit Search Text Window Bookmark Help
Browne Sealerh Subat Form Enter North Rev Pres Pres Pres	Bowe Search State Form Boto Land State Form Boto Land State Form
Find 03 Find Document Expand Collapse	Find 03 Find Document Expand Collapse
+ 02Y0.08270.92 + 02Y0.18270.85 + 02Y0.18270.85 + 02Y0.18270.9 + 02Y0.1270.9 + 02Y0.1270.9 + 02Y0. + 02Y0. + 02Z70 + 02Z71 + 02Z71 + 02Z72 + 03.3PD1-1.3TI0.47Z70.53 + 03.4VY + 03.5P0.2Pb0.1Pr0.2TI0.1 + 03.5P0.2Pb0.1S0.2TI0.1 + 03.5P0.2Pb0.1T00.2TI0.1 + 03.5P0.2Pb0.1T00.2TI0.1 + 03.5P0.2Pb0.1T00.2TI0.1 + 03.5P0.2Pb0.1T00.2TI0.1	• O3 + Arsonium + Benzenaminium + Benzene + Benzene + Benzene + Benzenemethanaminium + Benzenemethanaminium + Benzenemethanaminium + Benzenemethanaminium + Benzenemethanaminium + Butanediaminium + Carbon monoxide + Cyclotexene + Ethene + Helium + Hypochlorous acid + Hypochlorous acid + Lithium + Methane + Witrogen + Xitrogen + Ozonide
+ 03.5P0.2Pb0-1Ti0-1V0.2 + 03.5P0.2Pb0-1Ti0-1V0.2 + 03.5P0.2Pb0-1Ti0-1V0-1 + 03.5P0.2Pb0-1Ti0-1VD-2 + 03.5P0-2Pb0-1Ti0-1Vb0-2	+ Phosphonium + Propanaminium + Propanadiaminium + Sodium

2. Formula Hierarchy の画面になるので, O3 と入力すると, 自動的に索引のその部分に進むので, O3 の行をダブルクリックするか, ハイライトして「Expand」をクリック.

3. O3 の項にある Ozone の行をダブルクリックするか、ハイライトして「Expand」をクリック.

👫 13Cl on CD with Abstracts – [Formula Hierarchy]	_ 🗆 ×	👫 13Cl on CD with Abstracts – [Formula Hierarchy]
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Find 03 Find Document Expand Collapse		Find 03 Find Document Expand Collapse
- 03		- 03
		- Ozone
Ozone-1,2-1702 [167874-65-9]		[10028-15-6], analysis
Ozone-1,2-1702-3-180 [167874-66-0]		[10028-15-6], biological studies
Ozone-1,2-1802 [54511-46-5]		[10028-15-6], complex with water
Ozone-1,3-17O2 [21424-27-1]		+ compounds (MODIFIED)
Ozone-1,3-1702-2-180 [21424-32-8]		[10028-15-6], formation (nonpreparative)
Ozone-1,3-1802 [21424-28-2] Ozone-1-170 [85403-66-1]		[10028-15-6], inclusion complexes
Ozone-1-17O-2 3-18O2 [119623-14-2]		[10028-15-6], miscellaneous
Ozone-1-17O-2-18O [161198-14-7]		[10028-15-6], mixts, with hypohalous acids
Ozone-1-17O-3-18O [161198-13-6]		[10028-15-6], occurrence
Ozone-1-180 [26057-96-5]		[10028-15-6], photochem. reaction products
Ozone-2-170 [21424-29-3]		[10028-15-6], preparation
Ozone-2-170-1,3-1802 [21424-30-6]		[10028-15-6], processes
Ozone-2-180 [21424-31-7]		[10028-15-6], properties
Ozone-1703 [21424-25-9]		[10028-15-6], reaction products with cycloolefin copolymers
Ozone-18O3 [21424-26-0]		[10028-15-6], reaction products with ethylene-5-vinyl-2-norbornene co
		[10028-15-6], reaction products with fatty acids
		[10028-15-6], reaction products with lignosulfonates
		[10028-15-6], reactions
	-	+ reactions (WODIFIED)
		roozo ro oj, modum complex chemisorbed on aldrinia
	2	

4. Ozone の項にある Ozone (QUALIFIED) の行をダブルクリックするか、 ハイライトして「Expand」をクリック.

5. Ozone (QUALIFIED) の項にある [10028-15-6] Biological studies の行をダブルクリックす るか, ハイライトして「Document」をクリック. Biological studies のような限定句は, 文献 の件数が多い化学物質にだけ付与されている. この限定句が見つからない場合は, 文献標 題の一覧を表示して, そこから適当な文献を選択する.

49M		
🛒 13CI	on CD with Abstracts - [[10028-15-6], biological studies]	<u>- U ×</u>
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No	Document Title (2309 Documents - 6927 Occs)	
3	Method for sterilization with nitrogen radicals.	
3	Addition of oxygen or ozone gas to bathing water.	
3	Experimental observation on efficacy of type-XD-50 ozone	
	disinfector in killing microorganisms.	
3	Ozone toxicity in the rat. III. Effect of changes in ambient	
1 2	temperature on pulmonary parameters.	
1 3	differences and intersubject variability	
1 2	Chronic ozone effects on three northeastern bardwood species	
1 7	Growth and biomass	
3	Responses of loblolly pine to ozone and simulated acidic rain	
l ă	Selection for carotenogenesis in the yeast Phaffia rhodozyma by	
-	dark-generated singlet oxygen.	
3	Effects of cyclooxygenase inhibition on ozone-induced	
1	respiratory inflammation and lung function changes.	
3	Influence of coexposure of ozone with quartz, latex, albumin, and	
	LPS on TNF-a and chemotactic factor release by bovine alveolar	
	macrophages in vitro.	
3	Comparative sensitivity of lactating and virgin female rats to	
	ozone-induced pulmonary inflammation.	
1 3	Effects of repeated exposure to nitric acid vapor and ozone on	
	respiratory tract clearance in the fat.	
1		-
1		

5. 文献標題の一覧が表示されるので、見たい文献の標題をダブルクリック.

👫 13Cl on CD with Abstracts - [Addition of oxygen or ozone gas to bathing water.]	👫 13Cl on CD with Abstracts – [Addition of oxygen or ozone gas to bathing water.] 📃 🔲 🗙
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Prest Peer Peer Mark Unnet DDS	Transfel Newthit Piter Newt Wask Unrands
125:338709	tub. The gas controls malodor and provides therapeutic effects on the
Addition of oxygen or ozone gas to bathing water.	skin.
Saishu, Koji (Kaichu Kyoju Kenkyusho Kk, Japan). Jpn. Kokai Tokkyo	
Koho JP 08238286 A2 17 Sep 1996 Heisei, 6 pp. (Japan). CODEN:	Keywords
JKXXAF. CLASS: ICM: A61H033-02. ICS: A61H033-00; A61K007-50.	
APPLICATION: JP 95-47855 13 Feb 1995. DOCUMENT TYPE: Patent	salt oxygen ozone bathing water
CA Section: 62 (Essential Oils and Cosmetics)	
A device for prepg. warm water for bathing is described with diagrams	Index Entries
wherein the bathing water contains salt and a gas contg. O and/or O_3	
with air which is introduced to the water from the bottom of the bathing	Waters, potable
tub. The gas controls malodor and provides therapeutic effects on the	bathing; addn. of oxygen or ozone gas to bathing water
skin.	7782-44-7, biological studies
	10028-15-6, biological studies
Keywords	addn. of oxygen or ozone gas to bathing water
· · · · · · · · · · · · · · · · · · ·	
	T P

6. 回答が表示される. レコードの下の方を見ていくと Ozone の CAS 登録番号 [10028-15-6] の項目があり, biological studies と示されている.

問題 D (Substance Hierarchy を使う) 問題 D-1

Benzoic acid, 2-(acetyloxy)- の分析 (analysis, determination) に関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの <u>
ぶ</u> *Subst ボタンをクリック*.

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+ Benzohexaoxacyclooctadecindicarbonitrile	- Benzoic acid
+ Benzonexaoxacyclooctadecindion	+ Benzoic acid (QUALIFIED)
+ Benzohexaoxacyclooctadecindithiol	Benzoic-carboxy-13C acid [3880-99-7]
+ Benzohexaoxacyclooctadecinmethanol	+ Benzoic-carboxy-13C acid (MODIFIED)
+ Benzonexaoxacyclooctadecinolsoindolamine	+ Benzoic-carboxy-13C acid (SUBSTITUTED)
+ Benzohexaoxacyclooctadecinpropanoic acid	+ Benzoic-carboxy-13C-2,3,5,6-d4 acid (SUBSTITUTED)
+ Benzohexaoxacyclooctadecinsulfonamide	+ Benzoic-carboxy-13C-18O acid (MODIFIED)
+ Benzohexaoxacyclooctadecinsulfonyl chloride	Benzoic-carboxy-13C-18O2 acid [73569-85-4]
+ Benzonexaphene	+ Benzoic-carboxy-13C-18O2 acid (MODIFIED)
+ Benzoic acid	Benzoic-carboxy-14C acid [1589-66-8]
+ Benzoic, acid	Benzoic-acid-d [1005-01-2]
Benzol S [61529-50-8]	+ Benzoic acid-d (MODIFIED)
Benzon DA [3/330-26-0]	+ Benzoic acid-d (SUBSTITUTED)
+ Benzonaphthaceanthrylenoperviene	Benzoic-d5 acid [1079-02-3]
+ Benzonaphthacene	+ Benzoic-d5 acid (MODIFIED)
+ Benzonaphthacenecarboxamide	Benzoic-d5 2010-d [119070-11-8] Benzoic-12 3 4 5 6 -13 C6 acid [125945-98-4]
+ Benzonaphthacenecarboxylic acid	+ Benzoic-1,2,3,4,5,6-13C6 acid (20BSTITUTED)
+ Benzonaphthacenetetrone	Benzoic-1,3,4-13C3 acid [167029-42-7]
+ Benzonaphthacenetrione	Benzoic-1,3,5-13C3 acid [61829-68-3]
+ Benzonaphthacenone	Benzoic-2-d acid [4551-39-7]
	+ Benzoic-2-d acid (MODIFIED)

2. Substance Hierarchy の画面になるので, BENZOIC ACID と入力すると, 自動的に索引の その部分に進むので, BENZOIC ACID の行をダブルクリックするか, ハイライトして 「Expand」をクリック.

3. BENZOIC ACID の項にある Benzoic acid (SUBSTITUTED) の行をダブルクリックするか, ハイライトして「Expand」をクリック.

👫 13Cl on CD with Abstracts - [Substance Hierarchy]	□×	🚰 13Cl on CD with Abstracts – [, 2-(acetyloxy)– [50–78–2]]	٦×
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- Benzoic acid - Benzoic acid (3UBSTITUTED) + Benzoic acid (3UBSTITUTED) - Benzoic acid (3UBSTITUTED) + -, 4-{(1-acctyl-2-oxopropy)azo]-2-(2-benzothiazo)ylazo)-4-methyl-[16] -, 5-{(1-acctyl-2-oxopropy)azo]-2-hydroxy. [174508-15-7] -, 4-{(1-acctyl-2-oxopropy)azo]-2-hydroxy. [175518-59-9] -, 4-{(1-acctyl-2-oxopropy)azo]-2-hydroxy. [175188-59-9] -, 4-{(2-acctyl-5-oxo-6, 8)-thiazaspiro[4.5]udec-6-en-9-y)- (MODIFIED) +, -, 4-{(2-acctyl-5-oxo-1, 3, 4+triazaspiro[5.5]undec-1-en-4-y)- (MODIFIED) -, 2-(acctyloxy)- (MODIFIED) -, 3-(acctyloxy)- (MODIFIED) -, 3-(acctyloxy)- (MODIFIED) -, 4-(acctyloxy)- (MODIFIED) -, 3-(acctyloxy)- (MODIFIED) -, 3-(acctyloxy)-(MODIFIED) -, 3-(acctyloxy)-(MODIFIED) -, 3-(acctyloxy)-(Colf)-(2345-34-8] +, -, 4-(acctyloxy)-2(3-(actyloxy)-7-2-5-methylphenoxy]-4-chloro] -, 3-(acctyloxy)-2(4-(acctyloxy)-7-2-5-methylphenoxy]-4-chloro] -, 3-(acctyloxy)-6(4-(acctyloxy)-7-2-5-diethyloctahydro-4-methyl-5-1] +, -, 2-(acctyloxy)-6(4-(acctyloxy)-7-2-5-diethyloctahydro-4-methyl-5-1] +, -, 2-(acctyloxy)-6(4-(acctyloxy)-7-2-5-diethyloctahydro-4-methyl-5-1] +, -, 2-(acctyloxy)-6(4-(acctyloxy)-7-2-5-diethyloctahydro-4-methyl-5-1] +, -, 2-(acctyloxy)-6(4-(acctyloxy)-7-2-5-dieth		Nn Dnomment Title C2027 Documents PO07 Doce 1 Effect of high-parformance islaud chromatography mobile phase components on sensitivity in negative atmospheric pressure chemical ionization liquid chromatography-mass spectrometry. 1 Resolution of temary and quatemary mixtures of drugs in pharmaceutical preparations by use of spectrophotometric data in conjunction with PLS-1 and PLS-2 data processing methods. 1 Simultaneous determination of paracokamol, aspinin and cattroline in tablet formulations using factor analysis. 1 Simultaneous determination of paracokamol, aspinin and cattroline in tablet formulations using factor analysis. 1 Simultaneous determination of paracokamol, aspinin and cattroline in the spectrometry. 1 Bharmaceutical composition containing sucraftate and active ingredients in separate compartments to improve bioavailability. 1 Pharmaceutical composition containing flm-forming polymers for transdermal delivery. 1 Explacition properties of met coated coarse drug particles. 1 Explanticle Radiotelemetry Capsule: pharmaceutical application. 1 Induction of cytokines and ICAM-1 by proinflammatory cytokines in pharmatory cytokines in pharmaceutical splication.	
		4	Þ

4. Benzoic acid (SUBSTITUTED) の項にある --, 2-acetyloxy- [50-78-2] の行をダブルクリッ クするか, ハイライトして「Document」をクリック.

5. 文献標題の一覧が表示されるので, analysis, determination などのことばのある文献の標 題をダブルクリック.

🎇 13Cl on CD with Abstracts – [Simultaneous determination of paracetamol, aspirin and caff 💶 🗖 🗙	🎇 13Cl on CD with Abstracts – [Simultaneous determination of paracetamol, aspirin and caff 💶 🗖 🗙
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Providi Needrik Prev Neet Mark Urmsrt DDS	Trevel Newth Prev Next Mark Droved
125:339191	tablets was confirmed and quant. results using principal components
Simultaneous determination of paracetamol, aspirin and caffeine in tablet	regression are in good agreement with 'declared' values.
formulations using factor analysis.	
Rogers, L. J.; Adams, M. J. (Sch. Applied Sci., Univ. Wolverhampton,	Keywords
Eolverhampton WV1 1SB, UK). Anal. Commun., 33(11), 401-402	
(English) 1996. CODEN: ANCOFE. ISSN: 1359-7337. DOCUMENT	paracetamol aspirin caffeine detn spectrophotometry
TYPE: Journal CA Section: 64 (Pharmaceutical Analysis)	
A factor anal. method was applied to the detn. of paracetamol, aspirin	Index Entries
and caffeine in analgesic tablets, by UV spectroscopy without prior sepn.	
Using appropriate synthetic calibration solns., the qual. compn. of the	<u>50-78-2</u>
tablets was confirmed and quant. results using principal components	<u>58-08-2</u> , analysis
regression are in good agreement with 'declared' values.	<u>103-90-2</u>
	detn. of paracetamol and aspirin and caffeine in tablets by
Keywords	spectrophotometry and factor anal.
	T F

6. 回答が表示される. レコードの下の方を見ていくと Benzoic acid, 2-(acetyloxy)-の CAS 登録 番号 [50-78-2] の項目があり, 説明には detn (determination) のことばがある.

問題 D-2

Adipic acid (Hexanedioic acid) のエステルに関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの Subst ボタンをクリック.



2. Substance Hierarchy の画面になるので, HEXANEDIOIC と入力すると, 自動的に索引のその部分に進むので, Hexanedioic acid の行をダブルクリックするか, ハイライトして「Expand」をクリック.

3. Hexanedioic acid の項にある Hexanedioic acid (QUALIFIED) の行をダブルクリックするか, ハイライトして「Expand」をクリック.



4. Hexanedioic acid (QUALIFIED) の項にある esters (MODIFIED) の行をダブルクリックす るか、ハイライトして「Expand」をクリック.

5. esters (MODIFIED) の項にある dimethyl ester [627-93-0] (そのほかのエステルでもよい) の行をダブルクリック.

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No Document Title (169 Documents - 169 Occs.)	
1 Halogen-free detergent compositions for electronic devices.	
1 Closed-cell FTIR applications to measure consumer exposure to	
paint stripper solvents.	
1 vvater-soluble peeling agents for coatings.	
A simple catalytic system for the substitutive carbonylation of ally	
1 Determination of violatile arganic components from conting	
materials with extraction method	
1 Bolyamida synthesis by astar aminolysis 1 A new route for	
nylon-6 synthesis	
1 Noble metal Raney catalysts and preparation of hydrogenated	
compounds using such catalysts	
1 Liquid polymer delivery system comprising biodegradable.	
water-insoluble polymer.	
 Synthesis of dialkyl adipates by using non-acid catalyst. 	
1 Storage-stable aqueous agrochemical suspensions containing	
homoalaninate.	
1 Process for laundering paint-soiled garments.	
1 Cleaning agents for epoxy resins.	
1 Nonchloro cleaning method of epoxy resin mixing apparatus.	
1 Gel of a non-polar medium, and its use for preparing water-based	
drilling fluids.	
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6. この化合物に関する文献標題の一覧が表示される. 見たい文献標題をダブルクリック.

👫 1 3Cl on CD with Abstracts – [Halogen-free detergent compositions for electronic devices.] 💶 🗖 🗙	👫 13Cl on CD with Abstracts – [Halogen-free detergent compositions for electronic devices.] 💶 🗖 🗙
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125:332433	124-18-5
Halogen-free detergent compositions for electronic devices.	$\frac{577-11-7}{502-45-2}$
Ushama, Hirotoshi (Lion Corp, Japan). Jpn. Kokai Tokkyo Koho JP	<u>595-45-5</u> 627.02.0
08231993 A2 10 Sep 1996 Heisei, 8 (Japan). CODEN: JKXXAF.	<u>620 50 4</u>
CLASS: ICM: C11D007-50. ICS: C11D007-24; C11D007-26. ICI:	029-39-4
C11D007-50, C11D007-26, C11D007-24. APPLICATION: JP 95-62206	7664-03-0 higher alkyl esters, monoethanolamine salt
24 Feb 1995. DOCUMENT TYPE: Patent CA Section: 46 (Surface	9016-45-9
Active Agents and Detergents) Section cross-reference(s): 76	9038-95-3
The compns., effective for viscous pollutants adhered to electronic parts	25377-83-7
and digs during manufg. process, contain $X(CO_2R^1)(CO_2R^2)$ (R ¹ , R ² =	26952-13-6
C_{147} alkyl alkenyl alkylphenyl one of R^1 and R^2 may be H X = C_{247}	52352-54-2
$\sigma_{1.15}^{[1]}$ and $\sigma_{2.4}^{[1]}$ and $\sigma_{2.4}^{[1]}$	103193-69-7
aliph. hydrocarbylene, phenylene), $\mathbf{K} O(\mathbf{A} O)_{n} \mathbf{K} = \mathbf{C}_{1.9}$ alkyl, alkenyl,	halogen-free detergent compns. for electronic devices
Ph, alkylphenyl; R [*] = H, C _{1.9} alkyl, alkenyl; A' = C _{2.4} alkylene; n = 1-20),	
C_mH_{2m+2} , and C_mH_{2m} (m = 6-22). Thus, a detergent contg. di-Me adipate	

7. 回答が表示される. レコードの下の方を見ていくと Hexanedioic acid dimethyl ester の CAS 登録番号 [627-93-0] の項目がある.

問題 D-3

Silver Nitrate (Nitric acid silver salt)の用途 (Uses) に関する文献を一件調べなさい.

解答例 (13 CI on CD で検索)

1. ツールバーの Subst ボタンをクリック.



2. Substance Hierarchy の画面になるので, NITRIC ACID と入力すると, 自動的に索引のその部分に進むので, Nitric acid silver salt の行をダブルクリックするか, ハイライトして「Expand」をクリック.

3. Nitric acid silver salt の項にある Nitric acid silver (+1) salt (QUALIFIED) の行をダブルクリ ックするか, ハイライトして「Expand」をクリック.

👫 1 3Cl on CD with Abstracts - [Substance Hierarchy]	_ 🗆 ×	🗙 👫 13Cl on CD with Abstracts - [[7761-88-8], uses]	
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Find NITRIC ACID Find Document Expand Collapse	<u>^</u>		
Nitric acid silver salt Nitric acid silver(1+) salt (QUALIFIED)		No Document Title (541 Documents - 1082 Occs)	
[7761-88-8], reaction products with ammonium dizirconium phosph	nate	2 Method of preparing a composition for recording layers of thermally developable photographic material.	
[7761-88-8], reaction products with carbon fiber grafts with methac [7761-88-8], reaction products with dipotassium coco fatty acid ac	rylate:	2 Small chemistry experiments. Salt content in butter.	
[7761-88-8], reaction products with hydroxyapatite	, <u>. 3</u>	2 Sequential atomic absorption spectrophotometric determination of arsenite-cvanide and carbonate-cvanide mixtures using an	
[7761-88-8], reaction products with hydroxyapatite and zeolites		online preconcentration technique in a flow system.	
[7761-88-8], reaction products with hydroxylapatite		2 Realization and optimization of planar refracting microlenses by	
[7761-88-8], reaction products with phosphate, zinc oxide, and cal	sium h	Ag-Na ion-exchange techniques.	
[7761-88-8], reaction products with poly(vinylpyrrolidinone)		2 Method for controlled dispensing of extended-release chemical	
[7761-88-8], reaction products with sodium trimercaptotriazine-mod	dified	formulation in tablet form.	
[7761-88-8], reaction products with tannic acid	anica	2 Stereoselective addition of alcohol to acetylenecarboxylate gatabrad by split path	
[7761-88-8], reaction products with tetracarbonylferrate and iron sil	ver ca	2 Method and kit for silver staining, developing an image and	
[7761-88-8], reaction products with thiomalic acid and bases		visualizing biological materials.	
[7761-88-8], reaction products with zinc nitrate and neusilin		2 Consistent silver methods for demonstrating basement	
[7761-88-8], reaction product with D61 or Q3-06 resin		2 Silver impregnation techniques to identify spirochetes and other	
[7761-88-8], reaction product with hexafluoroacetylacetone	nium (bacteria.	
[7761-88-8], reactions	manne	2 A method for enhancing the sensitivity and stability of stains-all for phoephopretains appareted in acdium dedead.	
[7761-88-8], salts with polycarboxylates		sulfate-polyacrylamide gels.	
[7761- 33- 8], uses	_	2 Manufacture of thermoelectric device.	_
			Ě
			7

4. Nitric acid silver (+1) salt (QUALIFIED) の項にある [7761-88-8] uses の行をダブルクリッ クするか, ハイライトして「Document」をクリック. Uses のような限定句は, 文献の件数 が多い化学物質にだけ付与されている. この限定句が見つからない場合は, 文献標題の一 覧を表示して, そこから適当な文献を選択する.

5. 文献標題の一覧が表示されるので, 見たい文献の標題をダブルクリック.

👫 13Cl on CD with Abstracts – [Method of preparing a composition for recording layers of th 💶 🗖 🗙	🔀 13Cl on CD with Abstracts – [Method of preparing a composition for recording layers of th 💶 🗙
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125:342705	
Method of preparing a composition for recording layers of thermally	Index Entries
developable photographic material.	
Kolesova, Tamara B.; Govorkov, Aleksandr L.; Gorvaev, Mikhail A.;	Vinyl acetal polymers
Usanov, Yurii E.: Gulkova, Irina M.: Timokhina, Marina N.: Belvaeva, Alla	butvrals, bromination of silver stearate in prepn, of thermally
G. (Vserossiiskii Nauchnyi Tsentr "gosudarstvennyi Opticheskii Institut	developable photog, material
Im.S.I.Vavilova", Russia), Russ. RU 2054705 C1 20 Feb 1996 From:	Photographic emulsions
Izobreteniva 1996, (5), 222, (Russia), CODEN: RUXXE7, CLASS; ICM;	Photographic films
G03C001-498. APPLICATION: RU 90-4859130 13 Aug 1990.	heat-developable, bromination of silver stearate in prepn, of thermally
PRIORITY: SU 90-4859130 13 Aug 1990. DOCUMENT TYPE: Patent	developable photog, material
CA Section: 74 (Radiation Chemistry, Photochemistry, and Photographic	7761-88-8, uses
and Other Reprographic Processes)	7550-35-8
Title only translated.	bromination of silver stearate in prepn. of thermally developable
	photog, material
Keywords	

6. 回答が表示される. レコードの下の方を見ていくと Silver Nitrate の CAS 登録番号 [7761-88-8] の項目があり, uses と示されている.

問題 D-4

次の化合物に関する文献を一件調べなさい. (NH₂ (amino) はどこについていてもよく, ほかの置 換基がついていてもよい)



解答例 (13 CI on CD で検索)

1. ツールバーの Subst ボタンをクリック.



2. Substance Hierarchy の画面になるので、THIOPHENECARBOX と入力すると、自動的に索引のその部分に進むので、Thiophenecarboxylic acid の行をダブルクリックするか、ハイライトして「Expand」をクリック.

3. Thiophenecarboxylic acid の項にある 2-Thiophenecarboxylic acid (SUBSTITUTED) の行を ダブルクリックするか、ハイライトして「Expand」をクリック.

3GI on CD with Abstracts - [Substance Hierarchy]	13Cl on CD with Abstracts = [, 3=amino= [55341-87-2]]
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Find HIOPHENECARBOX Find Document Expand Collepse	Mark Unnard Markal Dear Direktik Streetik DDSMin
- Thiophenecarboxylic acid	No. Document Title (5 Documents - 5 Occs)
- 2-Thiophenecarboxylic acid (SUBSTITUTED)	1 An easy synthesis of 3-amino- and 3-nitrothiophene.
+ -, 2-acetyletranydro- (MODIFIED)	1 Preparation of N-thienylaminomethyleneacetic acid derivative.
+, 5-[1-[5-(acetyl-d)-2-thienvilethyl-1-d]- (MODIFIED)	and their evaluation as aldose reductase inhibitors
+, 5-[1-[5-(acetyl-d3)-2-thienyl]ethyl-1-d]- (MODIFIED)	1 Antiulcer pyridyloxy derivatives their preparation and uses
+, 5-[1-(5-acetyl-2-thienyl)ethyl]- (MODIFIED)	1 Quinolinediones useful as antiviral agents.
+, 5-[1-(5-acetyl-2-thienyl)ethyl-1-d]- (MODIFIED)	
+, 5-[1-(5-acetyl-2-thienyl)-1-methyl-2-(4-nitrophenyl)ethyl]- (MODIFIED)	
+, 5-[1-(5-acetyl-2-thienyl)-1-methyl-2-phenylethyl]- (MODIFIED)	
+, 3-(acetylthio)- (MODIFIED)	
+ -, 5-[3-(acetylinio)-d+-[[(1,1-dimetriyletinoxy)carbonyijaminojbutyij- (MODI)	
+ - 3 (acoditio) - motivity (MODIFIED)	
+ 4-[[2-[(aceb/thio)methyll=1-ozo-3-phenylpronyllaminol= (MODIFIED)	
+ 4-[[2-[(acetylthio)methyl] 1-oxo-3-(3-pyridiny))propyllamino]- (MODIFIE	
+, 5-((acetylthio)methyl]tetrahydro- (STEREO)	
+, 5-[(acetylthio)methyl]tetrahydro- (MODIFIED)	
+, 5-[3-(acetylthio)propyl]- (MODIFIED)	
, 3-amino- [55341-87-2]	
+, 3-amino- (MODIFIED)	
, 4-amino- [89499-38-7]	
+ 5 emino (MODIFIED)	
+ 3-amino-(4/aminocarbonyd)-5-I(athoxycarbonyd)thiol- (MODIELED)	*
, samile + (annotation) s ((enex) carbony (another teb)	

4. 2-Thiophenecarboxylic acid (SUBSTITUTED) の項にある --, 3-amino- [55341-87-2] の行 (--, 4-amino などでもよい) をダブルクリックするか, ハイライトして「Document」をクリック.

5. 文献標題の一覧が表示されるので、見たい文献の標題をダブルクリック.

🕵 13Cl on CD with Abstracts – [An easy synthesis of 3–amino– and 3–nitrothiophene.] 💦 💶 🗙	🅵 13Cl on CD with Abstracts – [An easy synthesis of 3-amino– and 3-nitrothiophene.] 👘 💶 💌
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124:86739	Index Entries
An easy synthesis of 3-amino- and 3-nitrothiophene. Barker, John M.; Huddleston, Patrick R.; Wood, Michael L. (Dep. Chemistry Physics, Nottingham Trent University, Nottingham NG11 8NS, UK). Synth. Commun., 25(23), 3729-34 (English) 1995. CODEN: SYNCAV. ISSN: 0039-7911. DOCUMENT TYPE: Journal CA Section: 27 (Heterocyclic Compounds (One Hetero Atom)) 3-Amino- and 3-nitrothiophene are readily made by the decarboxylation of the corresponding thiophene-2-carboxylic acids which are easily prepd. from the com. available Me 3-aminothiophene-2-carboxylate. Keywords thiophene amino nitro prepn	22288-78-4 100421-50-9 conversion to nitrothiophene derivs 55341-87-2 89283-80-7 prepn. and decarboxylation of 75735-44-3 prepn. and hydrolysis of 822-84-4 17721-06-1 172657-42-0 prepn. of

6. 回答が表示される. レコードの下の方を見ていくと 2-Thiophenecarboxylic acid, 3-amino- の CAS 登録番号 [55341-87-2] の項目がある.