

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s oxygen

L10 9564 OXYGEN

=> FIL STNGUIDE

COST IN U.S. DOLLARS

	ENTRY	SESSION	SINCE FILE	TOTAL
FULL ESTIMATED COST		4.38		63.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

	ENTRY	SESSION	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		0.00		-0.62

FILE 'STNGUIDE' ENTERED AT 10:05:25 ON 29 APR 2002

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 26, 2002 (20020426/UP).

=> FIL REGISTRY

COST IN U.S. DOLLARS

	ENTRY	SESSION	SINCE FILE	TOTAL
FULL ESTIMATED COST		0.06		63.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

	ENTRY	SESSION	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		0.00		-0.62

FILE 'REGISTRY' ENTERED AT 10:06:09 ON 29 APR 2002

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STRUCTURE FILE UPDATES: 28 APR 2002 HIGHEST RN 408492-65-9

DICTIONARY FILE UPDATES: 28 APR 2002 HIGHEST RN 408492-65-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> E "OXYGEN"/CN 25

E3 1 --> OXYGEN/CN  
E4 1 OXYGEN (0-40), VANADIUM (60-100)(ATO)  
E5 1 OXYGEN (14O2)/CN  
E6 1 OXYGEN (15O2)/CN  
E7 1 OXYGEN (16O18O)/CN  
E8 1 OXYGEN (18O+)/CN  
E9 1 OXYGEN (18O2)/CN  
E10 1 OXYGEN (O1+)/CN  
E11 1 OXYGEN (O1-)/CN  
E12 1 OXYGEN (O17O)/CN  
E13 1 OXYGEN (O2+)/CN  
E14 2 OXYGEN (O2-)/CN  
E15 1 OXYGEN (O21+)/CN  
E16 1 OXYGEN (O21-)/CN  
E17 1 OXYGEN (O21-) ION/CN  
E18 1 OXYGEN (O22+)/CN  
E19 1 OXYGEN (O23-)/CN  
E20 1 OXYGEN (O3+)/CN  
E21 1 OXYGEN (O31-)/CN  
E22 1 OXYGEN (O4)/CN  
E23 1 OXYGEN (O4+)/CN  
E24 1 OXYGEN (O41+)/CN  
E25 1 OXYGEN (O5)/CN

=> S E3

L11 1 OXYGEN/CN

=> DIS L11 1 SQIDE

THE ESTIMATED COST FOR THIS REQUEST IS 5.53 U.S.  
DO YOU WANT TO CONTINUE WITH THIS REQUEST?

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 AC

RN 7782-44-7 REGISTRY

CN Oxygen (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dioxygen

CN Molecular oxygen

CN Oxygen molecule

FS 3D CONCORD

DR 1338-93-8, 14797-70-7, 80217-98-7, 80937-33-3

MF O2

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIO  
CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBN  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, C  
DIOGENES, DIPPR\*, DRUGU, EMBASE, ENCOMPLI  
ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT,  
MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA, PROMT, R  
TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTI  
(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory info)

====

**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

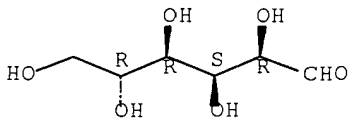
265909 REFERENCES IN FILE CA (1967 TO DATE)  
20849 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
266152 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s glucose/cn  
L12 2 GLUCOSE/CN

=> d

L12 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS  
RN 58367-01-4 REGISTRY  
CN DL-Glucose (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN (+-)-Glucose  
CN dl-Glucose  
CN **Glucose**  
FS STEREOSEARCH  
DR 111688-73-4  
MF C6 H12 O6  
LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CEN, CIN, DIOGENES, MEDLINE, PHARMASEARCH, PIRA, PROMT, TOXCENTER, TULSA, USPATFULL  
(\*File contains numerically searchable property data)

Relative stereochemistry.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

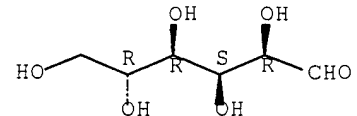
117 REFERENCES IN FILE CA (1967 TO DATE)  
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
117 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 2

L12 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS  
RN 50-99-7 REGISTRY  
CN D-Glucose (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN (+)-Glucose  
CN Anhydrous dextrose  
CN **Cartose**

CN D(+)-Glucose  
CN D-glucose  
CN Dextropur  
CN Dextrose  
CN Dextrosol  
CN Glucolin  
CN **Glucose**  
CN Glucosteril  
CN Goldsugar  
CN Grape sugar  
CN Maxim Energy Gel  
CN Staleydex 111  
CN Staleydex 333  
CN Sugar, grape  
CN Tabfine 097(HS)  
CN Vadex  
FS STEREOSEARCH  
DR 8012-24-6, 8030-23-7, 162222-91-5, 165659-51-8, 5093  
MF C6 H12 O6  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEI, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CA, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEM, DETHERM\*, DIOGENES, DIPPR\*, DRUGU, EMBASE, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OH, PDLCOM\*, PHARMASEARCH, PIRA, PROMT, RTEC, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORM**

119156 REFERENCES IN FILE CA (1967 TO DATE)  
1953 REFERENCES TO NON-SPECIFIC DERIVATIVES  
119234 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE ENTRY SESSION  
FULL ESTIMATED COST 15.40 78.  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

FILE 'CAPLUS' ENTERED AT 10:10:09 ON 29 APR 2002  
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FILE COVERS 1907 - 29 Apr 2002 VOL 136 ISS 18  
FILE LAST UPDATED: 28 Apr 2002 (20020428/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s reduc?(4a)l11<chem>  
MISSING TERM AFTER L11<CHEM>  
Operators must be followed by a search term, L-number, or query name.

=> s l11<chem>

#### SmartSELECT INITIATED

New TRANSFER and ANALYZE Commands Now Available  
See HELP TRANSFER and HELP ANALYZE for Details

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		4.36	83.04
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)			
	ENTRY	SESSION	SINCE FILE TOTAL
CA SUBSCRIBER PRICE		0.00	-0.62

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SET SMARTSELECT ON  
SET COMMAND COMPLETED

SEL L11 1 - CHEM

SET SMARTSELECT OFF  
SET COMMAND COMPLETED

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		9.58	92.04
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)			
	ENTRY	SESSION	SINCE FILE TOTAL
CA SUBSCRIBER PRICE		0.00	-0.62

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S L13  
L14 576381 L13

=> d his

(FILE 'HOME' ENTERED AT 09:34:34 ON 29 APR 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, BIOBUSINESS, BIOCUMMERCE, BIOSIS, BIOTECHABSTRACTS, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFERENCE, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONITORING, 29 APR 2002

SEA HETEROLOG? ?EXPRESS?

-----  
6\* FILE ADISALERTS  
3\* FILE ADISINSIGHT  
1\* FILE ADISNEWS  
360\* FILE AGRICOLA  
2\* FILE ANABSTR  
63\* FILE AQUASCI  
55\* FILE BIOBUSINESS  
6\* FILE BIOCUMMERCE  
3176 FILE BIOSIS  
326\* FILE BIOTECHABS  
326\* FILE BIOTECHDS  
1989 FILE BIOTECHNO  
466\* FILE CABA  
253 FILE CANCERLIT  
3593 FILE CAPLUS  
88\* FILE CEABA-VTB  
1\* FILE CEN  
1 FILE CIN  
70\* FILE CONFSCI  
0\* FILE CROPB  
22\* FILE CROPU  
0\* FILE DDFB  
55\* FILE DDFU  
1026\* FILE DGENE  
0\* FILE DRUGB

0\* FILE DRUGNL  
 88\* FILE DRUGU  
 0\* FILE DRUGUPDATES  
 48\* FILE EMBAL  
 2212 FILE EMBASE  
 2187\* FILE ESBIODBASE  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 28\* FILE FROSTI  
 119 FILE FSTA  
 942 FILE GENBANK  
 0\* FILE HEALSAFE  
 61\* FILE IFIPAT  
 45\* FILE JICST-EPLUS  
 3\* FILE KOSMET  
 1661\* FILE LIFESCI  
 4 FILE MEDICONF  
 2539 FILE MEDLINE  
 2\* FILE NIOSHTIC  
 18\* FILE NTIS  
 7\* FILE OCEAN  
 817\* FILE PASCAL  
 2 FILE PHAR  
 16\* FILE PROMT  
 3422 FILE SCISEARCH  
 0\* FILE SYNTHLINE  
 1374 FILE TOXCENTER  
 1215 FILE USPATFULL  
 2 FILE USPAT2  
 79 FILE WPIDS  
 79 FILE WPINDEX  
 48\* FILE BABS  
 0\* FILE CBNB  
 0\* FILE DIOGENES  
 0\* FILE INVESTEXT  
 4\* FILE IPA  
 3 FILE NAPRALERT  
 L1 QUE HETEROLOG? ?EXPRESS?  
 -----  
 FILE 'CAPLUS' ENTERED AT 09:40:26 ON 29 APR 2002  
 L2 3593 S HETEROLOG? ?EXPRESS?  
 L3 911938 S METAB?  
 L4 393 S L1 AND L3  
 L5 535714 S OXYGEN  
 L6 333824 S GLUCOSE  
 L7 27 S L4 AND (L5 OR L6)  
 L8 767 S PROTEIN OVEREXPRESSION  
 L9 3 S HETEROLOGOUS PROTEIN OVEREXPRESSION  
 FILE 'REGISTRY' ENTERED AT 10:05:01 ON 29 APR 2002  
 L10 9564 S OXYGEN  
 FILE 'STNGUIDE' ENTERED AT 10:05:25 ON 29 APR 2002  
 FILE 'REGISTRY' ENTERED AT 10:06:09 ON 29 APR 2002

L12 2 S GLUCOSE/CN  
 FILE 'CAPLUS' ENTERED AT 10:10:09 ON 29 APR 2002  
 FILE 'REGISTRY' ENTERED AT 10:16:50 ON 29 APR 2002  
 L13 SET SMARTSELECT ON  
 SEL L11 1- CHEM : 9 TERMS  
 SET SMARTSELECT OFF  
 FILE 'CAPLUS' ENTERED AT 10:16:51 ON 29 APR 2002  
 L14 576381 S L13  
 => s reduc?(4a)l14  
 1634876 REDUC?  
 723561 REDN  
 38005 REDNS  
 747288 REDN  
 (REDN OR REDNS)  
 2052320 REDUC?  
 (REDUC? OR REDN)  
 L15 15928 REDUC?(4A)L14  
 => s l15(p)l2  
 L16 1 L15(P)L2  
 => d  
 L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:29271 CAPLUS  
 DN 128:138543  
 TI The oxidases of gibberellin biosynthesis: their function and  
 AU Hedden, Peter  
 CS IACR-Long Ashton Research Station, Dep. of Agricultural  
 Bristol, Long Ashton, Bristol, BS18 9AF, UK  
 SO Physiol. Plant. (1997), 101(4), 709-719  
 CODEN: PHPLAI; ISSN: 0031-9317  
 PB Munksgaard International Publishers Ltd.  
 DT Journal; General Review  
 LA English  
 => log hold  
 COST IN U.S. DOLLARS SINCE FILE T  
 ENTRY SESSION  
 FULL ESTIMATED COST 21.67 114.  
 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
 ENTRY SESSION  
 CA SUBSCRIBER PRICE 0.00 -0.62  
 SESSION WILL BE HELD FOR 60 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 10:18:3  
 Connecting via Winsock to STN



LOGINID:SSSPTA1636DXS

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

- NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
- NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
- NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates
- NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency
- NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
- NEWS 6 Mar 08 Gene Names now available in BIOSIS
- NEWS 7 Mar 22 TOXLIT no longer available
- NEWS 8 Mar 22 TRCTHERMO no longer available
- NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAPLUS and USPATFULL
- NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY
- NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
- NEWS 12 Apr 08 "Ask CAS" for self-help around the clock
- NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
- NEWS 14 Apr 09 ZDB will be removed from STN
- NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
- NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
- NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
- NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002

- NEWS HOURS STN Operating Hours Plus Help Desk Availability
- NEWS INTER General Internet Information
- NEWS LOGIN Welcome Banner and News Items
- NEWS PHONE Direct Dial and Telecommunication Network Access to STN
- NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 15:47:10 ON 07 MAY 2002

=> file medline biosis caplus

FULL ESTIMATED COST 0.21 0.2

FILE 'MEDLINE' ENTERED AT 15:47:20 ON 07 MAY 2002

FILE 'BIOSIS' ENTERED AT 15:47:20 ON 07 MAY 2002  
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=> s induc?  
L1 4157488 INDUC?

=> s ?express?  
L2 2390080 ?EXPRESS?

=> s l1(s)l2  
L3 483729 L1(S) L2

=> s recombinant  
L4 477378 RECOMBINANT

=> s heterolog?  
L5 91221 HETEROLOG?

=> s l3 and l5  
L6 7656 L3 AND L5

=> s l3 and l4  
L7 47607 L3 AND L4

=> s l6 or l7  
L8 53527 L6 OR L7

=> s coli  
L9 658453 COLI

=> s l8 and l9  
L10 8775 L8 AND L9

=> s metab?  
L11 4684669 METAB?

=> s l10 and l11  
L12 3146 L10 AND L11

=> s l12 and oxygen  
L13 117 L12 AND OXYGEN

=> dup rem l13  
PROCESSING COMPLETED FOR L13  
L14 99 DUP REM L13 (18 DUPLICATES REMOVED)

=> d ti 1-10



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