

СОВ  **ЛАБ**
КОМПЛЕКСНОЕ ОСНАЩЕНИЕ
+7(916)414-93-61 www.sov-lab.ru
+7(495)045-58-29 sov_lab@mail.ru

CATOTM
CATO Research Chemicals Inc.
Food Reference Standards



CATO Research Chemicals Inc.



CATO reference standards

Established in Eugene, Oregon, the United States, Cato Research Chemicals Inc. (Hereafter referred to as CATO), which is specialized in manufacturing reference standards.

CATO, which currently provides laboratories in more than 80 countries and regions all over the world with tens of thousands of reference standards, mainly including chemical reference substances of drug impurities, industrial reference standards, reference standards for intermediates and plant extract etc. In the near future CATO will offer intermediates and APIs with small package and custom synthesis services.

CATO can provide many kinds of the reference standards, such as neat standards, solutions of individual compounds, mixtures of compounds.

For ease of using and researching, CATO separated catalogue into industry, textile, leather toys, veterinary drugs, food(including pesticide) and environment, according to current hot issues. Each catalogue contains the relevant solutions of individual compounds and mixtures of compounds.

Hope our catalogue are helpful for looking for information of standards, the catalogue is continuously updated. If you can't found reference standards, you could contact local distributor, or send an email to info@cato-chem.com, or visit to our website: <http://www.cato-chem.com>.

About product number

CATO reference standards are separated into three categories.

The first category is neat standards, in product number of it, the first letters is "C", and the product number is consists of four English letters plus six digits, such as: COT1111601.

The second category is the solutions of individual compounds, in product number of it, the first letters is "L", the product number is consists of four English letters plus six digits plus "-" plus two English letters, the last two letters indicate corresponding solvent, such as: LPAE111736-HE.

The third category is the mixtures of compounds, in product number of it, the first letters is "M", the product number is consists of four English letters plus six digits plus "-" plus two English letters, the last two letters indicate corresponding solvent, such as: MPAE111723-HE.

The first four letters in product number, indicate the product classification, details as follows:

CWLT	Textiles, leather, toys	CCAD	Veterinary drugs	CCPE	atural
CCFD	Food	CCPD	Pesticide residue	CCHM	Others
CCEM&CCET	Environment				

The following five kinds product are special classification, according to the role of them, incorporated into the above 8 categories:

CPAE	Phthalates	CAZO	Azo compound	COTI	Organotins
CFRT	Organophosphate flame retardants			CPAH	PAHs

The last two letters in product number of solution standards indicates the solvent, specifically as follows:

AL	Acetonitrile	HE	n-Hexane
BE	Benzene	IO	Iso-Octane
CY	Cyclohexane	MB	Methyl-tert. Butyl ether
DI	Dichloromethane	ME	Methanol
EA	Ethylacetate	TO	Toluene
EL	Ethanol	WA	Water

For example:

CCFD200174: reference standards, CCFD indicates it is food reference material.

LPAE111743-HE: solution standards, the "L" indicates it is the solutions of individual compounds, HE indicate solvent is n-Hexane.

MAZO111426-ME: solution standards, the "M" indicates it is the mixtures of compounds, ME indicate solvent is methanol.

Quality and certification

Quality

All materials are traceable to The International System of Units via the use of certified weights and certified volumetric flasks. All products are produced under the quality system meeting both ISO 9001 and ISO/IEC 17025 standards and in accordance with the guidance of ISO Guide34.

Certification

CATO solution standards are designed for calibration or recalibration of chromatographic or other analytical systems used for quantitative or qualitative purposes. The products may also be used as reference standards for studies and to validate analytical procedures.

All raw materials used to prepare the multicomponent mixtures are of the highest purity. After our production process, each material is checked using several of the following methods, if applicable: UV, IR spectroscopy, elemental analysis, chromatographic properties and physical properties and Karl Fischer titration for detection of water content.

Analytical authentication

CATO Certificates of Analysis provide a full description of the material to which they relate and summarise the analysis undertaken during the characterisation process. Current Certificates of Analysis for individual lots /batches for products in the range are available on our website, <http://www.cato-chem.com> on the relevant product pages. If you are unable to find the product that you require please contact one of our local sales offices.

The COA (reference standards / solution standards)

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Certificate of Analysis

CATO Research Chemicals Inc. 1358 South Bertelsen Road, Eugene, Oregon, U.S. web:www.cato-chem.com
Tel:541-2553640 Fax:541-2553641 E-mail:info@cato-chem.com

Catalogue Number:	CCPD100150	Lot No:	ZE-11-24
Product Name:	Caplan		
CAS Number:	133-06-2		
Molecular Formula:	C ₈ H ₈ Cl ₂ N ₂ O ₂ S	Molecular Weight:	300.59
Storage:	+5°C		

Chemical Structure: ClC1(Cl)N(C2=CC=CC=C2)C(=O)N1C3=CC=CC=C3

Test Description	Specifications	Results
Appearance:	Light Yellow Powder	Conforms
Identification:	MS	Conforms
Purity:	HPLC	99.1%

This analysis method has been verified using an approach consistent with ISO 17025:2005 and registered to ISO 9001:2008. The uncertainty calculated for this product is ±2.0%. The value is the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level. If you lose the certificate, you could request a soft copy by sending us an e-mail with the lot number, or directly download it from our website at www.cato-chem.com/download. If you need the MSDS, please feel free to contact us by sending an e-mail with the lot number or CAS number, or directly download it from our website at www.cato-chem.com/download.

Warning:

Analysed Date: Jan 23, 2017 Expiry Date: Jan 22, 2019
Approved by:

Certificate of Analysis

CATO Research Chemicals Inc. 1358 South Bertelsen Road, Eugene, Oregon, U.S. web:www.cato-chem.com
Tel:541-2553640 Fax:541-2553641 E-mail:info@cato-chem.com

Catalogue Number:	MOT111610-ME
Product Description:	Cyganolin Mix 10
Solvent:	Methanol, Acetonitrile=9:1
Storage:	+5°C
Lot No:	MOT111610-ME-1509

NO.	Component	CAS	Concentration(µg/mL)
1	Methyltin Trichloride	993-16-8	1005.9
2	N-Butyltin Trichloride	1118-46-3	964.8
3	N-Octyltin Trichloride	3091-25-6	998.5
4	Di-N-Butyltin Dichloride	883-18-1	1001.9
5	Di-N-Octyltin Dichloride	3542-36-7	983.7
6	Diphenyltin Dichloride	1135-99-5	969.6
7	Di-N-Propyltin Dichloride	867-36-7	979.6
8	Tri-N-Butyltin Chloride	1461-22-9	993.2
9	Triphenyltin Chloride	639-58-7	1000.9
10	Tetra-N-Butyltin	1461-25-2	993.2

This analysis method has been verified using an approach consistent with ISO 17025:2005 and registered to ISO 9001:2008. The uncertainty calculated for this product is ±2.0%. The value is the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level. If you lose the certificate, you could request a soft copy by sending us an e-mail with the lot number, or directly download it from our website at www.cato-chem.com/download. If you need the MSDS, please feel free to contact us by sending an e-mail with the lot number or CAS number, or directly download it from our website at www.cato-chem.com/download.

Warning:

Analysed Date: Jan 18, 2017 Expiry Date: Jan 17, 2019
Approved by:

Food Additives

Plasticizer

Product	CAS No.	Cat No.	Unit
Phthalic Acid, Bis-Methyl Ester	131-11-3	CPAE111707	1g
Phthalic Acid, Bis-Ethyl Ester	84-66-2	CPAE111708	1g
Phthalic Acid, Bis-Iso-Butyl Ester	84-69-5	CPAE111710	250mg
Phthalic Acid, Bis-Butyl Ester	84-74-2	CPAE111701	1g
Phthalic Acid, Bis-Methylglycol Ester	117-82-8	CPAE111718	1g
Phthalic Acid, Bis-4-Methyl-2-Pentyl Ester	146-50-9	CPAE111730	100mg
Phthalic Acid, Bis-2-Ethoxyethyl Ester	605-54-9	CPAE111742	100mg
Diamyl Phthalate	131-18-0	CPAE111711	250mg
Phthalic Acid, Bis-Hexyl Ester	84-75-3	CPAE111717	100mg
Phthalic Acid, Benzylbutyl Ester	85-68-7	CPAE111702	250mg
Phthalic Acid, Bis-Butoxyethyl Ester	117-83-9	CPAE111741	100mg
Phthalic Acid, Bis-Cyclohexyl Ester	84-61-7	CPAE111713	500mg
Phthalic Acid, Bis-2-Ethylhexyl Ester	117-81-7	CPAE111703	500mg
Phthalic Acid, Bis-Phenyl Ester	84-62-8	CPAE111722	1g
Phthalic Acid, Bis-N-Octyl Ester	117-84-0	CPAE111704	500mg
Phthalic Acid, Bis-Nonyl Ester	84-76-4	CPAE111715	500mg
Phthalic Acid, Bis-Isopropylester	605-45-8	CPAE111744	100mg
Phthalic Acid, Bis-Allyl Ester	131-17-9	CPAE111723	250mg
Phthalic Acid, Bis-Propyl Ester	131-16-8	CPAE111709	250mg
Phthalic Acid, Bis-Iso-Pentyl Ester	605-50-5	CPAE111719	10mg/500mg
Phthalic Acid, Bis-N-Heptyl Ester	3648-21-3	CPAE111712	100mg
Phthalic Acid, Bis-Isononyl Ester	68515-48-0	CWLT600479	500mg
Phthalic Acid, Bis-Isodecyl Ester	26761-40-0	CWLT600477	100mg
Phthalic Acid	88-99-3	CWLT600463	500mg
1,2-Benzenedicarboxylic Acid, Dipentyl Ester, Branched And Linear	84777-06-0	CCHM700829	10mg
Phthalic Acid, Bis-Benzylester	523-31-9	CPAE111721	100mg
Phthalic Acid, Bis-Iso-Heptyl Ester	41451-28-9	CPAE111729	100mg
Phthalic Acid, Bis-Iso-Octyl Ester	27554-26-3	CPAE111714	500mg
Didecyl Phthalate	84-77-5	CPAE111727	500mg
Phthalic Acid, Butyloctyl Ester	84-78-6	CWLT600491	100mg
Phthalic Acid, Bis Undecyl Ester	3648-20-2	CPAE111724	100mg
Phthalic Acid, Hexyl-2-Ethylhexyl Ester	75673-16-4	CWLT600492	100mg
Phthalic Anhydride	85-44-9	CWLT600502	500mg

Product	CAS No.	Cat No.	Unit
Phthalic Acid, Mono-Methyl Ester	4376-18-5	CPAE111746	500mg
Phthalic Acid, Mono-N-Butyl Ester	131-70-4	CWLT600497	100mg
Phthalic Acid, Mono-2-Ethylhexyl Ester	4376-20-9	CWLT600493	100mg
Isophthalic Acid	121-91-5	CCEM500593	2g
Isophthalic Acid, Bis-Methyl Ester	1459-93-4	CCPD101339	2g
Isophthalic Acid, Bis-Phenyl Ester	744-45-6	CCPD101340	500mg

Sugar, Polysaccharide, Sweetener

Product	CAS No.	Cat No.	Unit
Acesulfame Potassium	55589-62-3	CCFD200032	500mg
N-Cyclohexylsulfamic Acid Sodium Salt (Sodium Cyclamate)	139-05-9	CCFD200183	500mg
Aspartame	22839-47-0	CCFD200057	500mg
Saccharin Sodium Salt Hydrate	82385-42-0	CCFD200232	500mg
Neotame	165450-17-9	CCHM700732	250mg
Sucralose	56038-13-2	CCFD200236	100mg
D(+)-Glucose	50-99-7	CCHM700477	1g/5g
D(-)-Fructose	57-48-7	CFAD310560	500mg
L(+)-Arabinose	87-72-9	CCFD200162	500mg
D(+)-Galactose	59-23-4	CCFD200078	500mg
L(-)-Sorbitol	87-79-6	CCFD200161	500mg
D(+)-Xylose	58-86-6	CCFD200084	500mg
D-Lactitol Monohydrate	81025-04-9	CCFD200091	100mg
Maltotriose Hydrate	207511-08-8	CCFD200173	250mg
Saccharin	81-07-2	CCFD200231	250mg
Maltopentaose	34620-76-3	CCFD200312	20mg/50mg
Maltopentaose	34620-76-3	CCHM700492	20mg 98%
Saccharin Sodium	128-44-9	CCFD200315	100mg
Fructopyranose	7660-25-5	CCHM700620	100mg/20mg
Lactulose	4618-18-2	CCFD200322	250mg
Lactose	63-42-3	CCFD200366	1g
Fructo-Oligosaccharide	308066-66-2	CCFD200369	250mg
1F-FructofuranosylInystose	59432-60-9	CCFD200370	10mg
Alpha-D(+)-Glucose	492-62-6	CFAD310561	500mg
D(+)-Saccharose	57-50-1	CFAD310517	500mg

Product	CAS No.	Cat No.	Unit
D(-)-Ribose	50-69-1	CCFD200074	500mg
Alpha-Chloralose	15879-93-3	CCFD200049	500mg
Beta-Chloralose	16376-36-6	CCPD101131	50mg
D(+)-Maltose Hydrate	6363-53-7	CCFD200079	500mg
Acesulfame	33665-90-6	CCFD200318	200mg
Alpha-D(+)-Lactose Monohydrate	5989-81-1	CCFD200051	500mg
D(+)-Cellobiose	528-50-7	CCFD200077	500mg
Alpha-D(+)-Melibiose Hydrate	585-99-9	CCFD200052	500mg
L(+)-Rhamnose Hydrate	10030-85-0	CCFD200164	500mg
D(+)-Trehalose Dihydrate	6138-23-4	CCFD200082	500mg
D(+)-Turanose	547-25-1	CCFD200083	500mg
Melezitose Hydrate	597-12-6	CCFD200175	500mg
D(+)-Raffinose Pentahydrate	17629-30-0	CCFD200080	500mg
D-Mannit	69-65-8	CCFD200109	500mg
D-Sorbit	50-70-4	CFAD310576	500mg
D(+)-Arabit	488-82-4	CCFD200075	250mg
L(-)-Arabit	7643-75-6	CCFD200159	250mg
Maltitol	585-88-6	CCFD200352	500mg/1g
Xylit	87-99-0	CCFD200279	500mg
Adonit	488-81-3	CCFD200048	100mg

Antioxidant

Product	CAS No.	Cat No.	Unit
Tert-Butyl-4-Hydroxyanisole (Mixture Of 2- And 3-Isomer)	25013-16-5	CCFD200248	250mg
2,6-Di-Tert.-Butyl-4-Methylphenol	128-37-0	CCFD200019	500mg
Tert-Butylhydroquinone	1948-33-0	CCFD200249	500mg
Ethoxyquin	91-53-2	CCFD200128	250mg
3,3'-Thiodipropionic Acid Didodecyl Ester	123-28-4	CCFD200024	500mg
3,3'-Thiodipropionic Acid	111-17-1	CCFD200023	500mg
Gallic Acid	149-91-7	CCFD200135	250mg
Gallic Acid-Propyl Ester	121-79-9	CCFD200136	500mg
Ascorbyl Palmitate	137-66-6	CCFD200056	500mg
L(+)-Ascorbic Acid	50-81-7	CFAD310554	500mg
D(-)-Isoascorbic Acid	89-65-6	CCFD200073	500mg

Product	CAS No.	Cat No.	Unit
DI-Alpha-Tocopherol (Vitamin E)	10191-41-0	CCFD200093	500mg
Glycine	56-40-6	CCFD200139	500mg

Preservative

Product	CAS No.	Cat No.	Unit
Benzoic Acid	65-85-0	CCFD200059	500mg
Benzoic Acid Sodium Salt	532-32-1	CCFD200060	500mg/1g
Sorbic Acid	110-44-1	CCFD200233	500mg
Trans-Trans-Sorbic Acid Potassium Salt	24634-61-5	CCFD200260	500mg
Dehydroacetic Acid	520-45-6	CCHM700726	1g
Acetic Acid	64-19-7	CCFD200033	5ml
Propionic Acid (Propanoic Acid)	79-09-4	CCFD200222	2ml
Propionic Acid Calcium Salt	4075-81-4	CCFD200223	500mg
Propionic Acid Sodium Salt	137-40-6	CCFD200225	500mg
4-Hydroxybenzoic Acid Methyl Ester	99-76-3	CCFD200027	500mg
4-Hydroxybenzoic Acid Ethyl Ester	120-47-8	CCFD200026	500mg
4-Hydroxybenzoic Acid Propyl Ester	94-13-3	CCFD200028	500mg
4-Hydroxybenzoic Acid-N-Butyl Ester	94-26-8	CCFD200029	100mg

Colorant

Product	CAS No.	Cat No.	Unit
Allura Red Ac (E 129)	25956-17-6	CWLT600108	100mg
New Red	220658-76-4	CCHM700727	100mg
Azorubin (E122)	3567-69-9	CWLT600114	100mg
Ponceau 4Rc	2611-82-7	CWLT600513	100mg
Amaranth	915-67-3	CWLT600109	250mg
Acid Red 2g (E 128)	3734-67-6	CWLT600093	100mg
Tartrazine (E102)	1934-21-0	CWLT600531	250mg
Sunset Yellow	2783-94-0	CWLT600530	100mg
Brilliant Blue Fcf (E133)	3844-45-9	CWLT600133	500mg
Acid Blue 74	860-22-0	CWLT600195	250mg
Orange 2 Sodium Salt	633-96-5	CWLT600222	500mg
Monascus Red	874807-57-5	CCPD100602	100mg
Quinoline Yellow	8004-92-0	CWLT600516	500mg

Product	CAS No.	Cat No.	Unit
Solvent Yellow 34	2465-27-2	CWLT600528	100mg
Basic Orange 2	532-82-1	CCHM700729	250mg
Rhodamine B Chloride	81-88-9	CWLT600521	250mg
Carminic Acid (E120)	1260-17-9	CWLT600136	100mg
Canthaxanthine	514-78-3	CWLT600135	150mg
8'-Apooaldehyde (Apocarotenal)	1107-26-2	CCFD200031	50mg
Curcumin	458-37-7	CWLT600140	500mg

Amino Acids (Organic Acids)

Product	CAS No.	Cat No.	Unit
DI-Alanine	302-72-7	CCFD200092	250mg
DI-Arginine Hydrochloride	7200-25-1	CCFD200095	250mg
DI-Aspartic Acid	617-45-8	CCFD200097	250mg
L-Cystine	56-89-3	CCPE900797	20mg
DI-Glutamic Acid	617-65-2	CCFD200098	250mg
DI-Histidine	4998-57-6	CCPD101232	250mg
DI-Isoleucine	443-79-8	CCFD200099	250mg
DI-Leucine	328-39-2	CCFD200100	250mg
DI-Lysine	70-54-2	CCFD200101	250mg
H-D-Trp-Ome.Hcl	14907-27-8	CCFD200296	100mg
H-Trp-Ome.Hcl	7524-52-9	CCFD200297	100mg
O-Tert-Butyl-D-Threonine	201274-81-9	CCFD200298	250mg
D-Aspartic Acid	1783-96-6	CCFD200299	250mg
4'-Formylphenyl-Beta-D-Glucopyranoside	26993-16-8	CCFD200300	500mg
DI-Asparagine Hydrate	3130-87-8	CCFD200096	250mg
DI-Malic Acid	617-48-1	CCFD200337	100mg
DI-Malic Acid	6915-15-7	CFAD310530	500mg
DI-Threonine	80-68-2	CCFD200106	100mg
DI-Tyrosine	556-03-6	CCFD200107	100mg
DI-Valine	516-06-3	CCFD200108	100mg
4-Methoxy-L-Phenylalanine	6230-11-1	CCFD200301	500mg
N-Acetyl-L-Aspartic?Acid	997-55-7	CCFD200306	50mg
7-Chloro-L-Tryptophan	73945-46-7	CCFD200307	100mg
5-Chloro-DI-Tryptophan	154-07-4	CCFD200308	100mg

Product	CAS No.	Cat No.	Unit
DI-Methionine	59-51-8	CCFD200103	250mg
DI-Phenylalanine	150-30-1	CCFD200104	250mg
L(-)-Proline	147-85-3	CCFD200160	250mg
DI-Serine	302-84-1	CCFD200105	100mg
L-Glutamine	56-85-9	CCFD200165	250mg
L-Arginine	74-79-3	CCFD200311	500mg
D-Norleucine	327-56-0	CCFD200292	250mg
H-Ala-Ala-Gln-Oh	290312-62-8	CCFD200323	100mg
L-Alanyl-L-Alanine	1948-31-8	CCFD200324	200mg
(2R,3R)-2-Amino-3-Methylpentanoic Acid	319-78-8	CCFD200334	100mg
D-2-Amino-4-Methylpentanoic Acid	328-38-1	CCFD200333	1g
D-Methionine	348-67-4	CCFD200332	500mg
D-Phenylalanine	673-06-3	CCFD200331	1g
D-Pyrrolidine-2-Carboxylic Acid	344-25-2	CCFD200330	500mg
D-Serine	312-84-5	CCPE901294	1g
D-Threonine	632-20-2	CCFD200329	1g
D(+)-Tryptophan	153-94-6	CCFD200328	1g
D-Valine	640-68-6	CCFD200327	1g
DI-Homocysteine	454-29-5	CCFD200349	100mg/250mg
Alitame	80863-62-3	CCFD200364	500mg
L-Hydroxyproline	51-35-4	CCFD200365	250mg

Fatty Acids And Esters

Product	CAS No.	Cat No.	Unit
Octadecanoic	27234-05-5	CCHM700899	500mg
Formic Acid (Methanoic Acid)	64-18-6	CCFD200131	1ml
Acetic Acid	64-19-7	CCFD200033	5ml
Heneicosanoic Acid	2363-71-5	CCFD200144	100mg
Heneicosanoic Acid Methyl Ester	6064-90-0	CCFD200145	100mg
Heptadecanoic Acid	506-12-7	CCFD200146	250mg
Heptadecanoic Acid-Methyl Ester	1731-92-6	CCFD200147	250mg
Heptanoic Acid (Heptylic Acid)	111-14-8	CCFD200148	2ml
Heptanoic Acid Ethyl Ester	106-30-9	CCFD200149	500mg
Heptanoic Acid Methyl Ester	106-73-0	CCFD200150	2ml

Product	CAS No.	Cat No.	Unit
Hexacosanoic Acid (Cerotic Acid)	506-46-7	CCFD200151	50mg
Hexadecanoic Acid (Palmitic Acid)	57-10-3	CCFD200152	250mg
Hexadecanoic Acid Ethyl Ester	628-97-7	CCFD200153	250mg
Hexadecanoic Acid Methyl Ester	112-39-0	CCFD200154	500mg
Hexanoic Acid (Caproic Acid)	142-62-1	CCFD200155	1g
Hexanoic Acid Ethyl Ester	123-66-0	CCFD200156	500mg
Hexanoic Acid Methyl Ester	106-70-7	CCFD200157	2ml
1,10-Decanedicarboxylic Acid	693-23-2	CCFD200004	500mg
1,12-Dodecanedicarboxylic Acid	821-38-5	CCFD200005	250mg
1,5-Pentanedicarboxylic Acid	111-16-0	CCFD200006	500mg
1,6-Hexanedicarboxylic Acid (Octanedioic Acid, Suberic Acid)	505-48-6	CCFD200007	500mg
1,6-Hexanedicarboxylic Acid Bis-Methyl Ester	1732-09-8	CCFD200008	500mg
1,7-Heptanedicarboxylic Acid	123-99-9	CCFD200009	1g
1,8-Octanedicarboxylic Acid (Decanedioic Acid)	111-20-6	CCFD200010	1g
1,8-Octanedicarboxylic Acid-Bis-Methyl Ester	106-79-6	CCFD200011	500mg
Adipic Acid (Hexandioic Acid)	124-04-9	CCFD200046	1g
Butyric Acid (Butanoic Acid)	107-92-6	CCFD200063	2ml
Decanoic Acid (Capric Acid)	334-48-5	CCFD200086	500mg
Docosanoic Acid (Behenic Acid)	112-85-6	CCFD200111	500mg
Dodecanoic Acid (Lauric Acid)	143-07-7	CCFD200114	1g
Eicosanoic Acid (Arachidic Acid)	506-30-9	CCFD200119	250mg
Epigallocatechin-3-Gallate	989-51-5	CCFD200124	100mg
Malonic Acid Dimethyl Ester	108-59-8	CCFD200172	500mg
Myristic Acid-Isopropyl Ester	110-27-0	CCFD200179	500mg
N-Caprylic Acid-N-Butyl Ester	589-75-3	CCFD200182	250mg
N-Ethylacetamide	625-50-3	CCFD200184	500mg
Nicotinic Acid Benzyl Ester	94-44-0	CCFD200188	500mg
N-Methylacetamide	79-16-3	CCFD200189	500mg
Nonadecanoic Acid (Nonadecyclic Acid)	646-30-0	CCFD200190	500mg
Nonadecanoic Acid Methyl Ester	1731-94-8	CCFD200191	500mg
Nonanoic Acid (Pelargonic Acid)	112-05-0	CCFD200192	2ml
Nonanoic Acid Ethyl Ester	123-29-5	CCFD200193	500mg

Product	CAS No.	Cat No.	Unit
Nonanoic Acid Methyl Ester	1731-84-6	CCFD200194	2ml
N-Valeric Acid (N-Pentanoic Acid)	109-52-4	CCFD200195	2ml
Octacosanoic Acid (Montanic Acid)	506-48-9	CCFD200196	50mg
Octacosanoic Acid Methyl Ester	55682-92-3	CCFD200197	100mg
Octadecanedioic Acid	871-70-5	CCFD200198	100mg
Octadecanoic Acid Ethyl Ester	111-61-5	CCFD200200	250mg
Octadecanoic Acid Methyl Ester	112-61-8	CCFD200201	2g
Octanoic Acid	124-07-2	CCFD200202	1g
Octanoic Acid Ethyl Ester	106-32-1	CCFD200203	500mg
Octanoic Acid Methyl Ester	111-11-5	CCFD200204	2ml
Oxalic Acid Methyl Ester	553-90-2	CCFD200209	500mg
Palmitic Acid-N-Butyl Ester	111-06-8	CCFD200211	250mg
Pentacosanoic Acid	506-38-7	CCFD200215	100mg
Pentacosanoic Acid-Methyl Ester	55373-89-2	CCFD200216	20mg
Pentadecanoic Acid (Pentadecylic Acid)	1002-84-2	CCFD200217	250mg
Pentadecanoic Acid Ethyl Ester	41114-00-5	CCFD200218	100mg
Pentadecanoic Acid Methyl Ester	7132-64-1	CCFD200219	250mg
Propionic Acid Methyl Ester	554-12-1	CCFD200219	2ml
Propionic Acid-Ethyl Ester	105-37-3	CCFD200226	500mg
Propionic Acid-Propyl Ester	106-36-5	CCFD200227	2ml
Succinic Acid (Butanedioic Acid)	110-15-6	CCFD200234	250mg/500mg
Succinic Acid Dimethyl Ester	106-65-0	CCFD200235	500mg
Tetracosanoic Acid (Lignoceric Acid)	557-59-5	CCFD200250	250mg
Tetracosanoic Acid Ethyl Ester	24634-95-5	CCFD200251	100mg
Tetracosanoic Acid Methyl Ester	2442-49-1	CCFD200252	100mg
Tetradecanoic Acid (Myristic Acid)	544-63-8	CCHM510128	500mg
Tetradecanoic Acid Ethyl Ester	124-06-1	CCFD200254	500mg
Tetradecanoic Acid Methyl Ester	124-10-7	CCFD200255	2ml
Triacetin	102-76-1	CCFD200262	500mg
Triacontanoic Acid (Mellisic Acid)	506-50-3	CCFD200263	100mg
Tricosanoic Acid	2433-96-7	CCFD200264	100mg
Tricosanoic Acid Methyl Ester	2433-97-8	CCFD200265	100mg
Tridecanoic Acid (Tridecyclic Acid)	638-53-9	CCHM510130	500mg
Tridecanoic Acid Ethyl Ester	28267-29-0	CCFD200267	250mg
Tridecanoic Acid Methyl Ester	1731-88-0	CCFD200268	250mg
Undecanoic Acid (Undecylic Acid)	112-37-8	CCFD200270	1g

Product	CAS No.	Cat No.	Unit
Undecanoic Acid Ethyl Ester	627-90-7	CCFD200271	500mg
Undecanoic Acid Methyl Ester	1731-86-8	CCFD200272	2ml
Valeric Acid Ethyl Ester (Pentanoic Acid Ethyl Ester)	539-82-2	CCFD200273	500mg
Valeric Acid Methyl Ester	624-24-8	CCFD200274	2ml
Lauric Acid-N-Butyl Ester	106-18-3	CCFD200283	250mg
Myristic Acid-N-Butyl Ester	110-36-1	CCFD200284	250mg
Linoleic Acid	60-33-3	CCFD200167	250mg
Acetic Acid Isobutyl Ester	110-19-0	CCFD200034	2ml
Acetic Acid-2-Ethoxyethyl Ester	111-15-9	CCFD200035	2ml
Acetic Acid-3-Methyl Butyl Ester	123-92-2	CCFD200036	500mg
Acetic Acid-Diethylamide	685-91-6	CCFD200037	500mg
Acetic Acid-Dimethylamide	127-19-5	CCFD200038	2ml
Acetic Acid-Isopropyl Ester	108-21-4	CCFD200039	2ml
Acetic Acid-Linalyl Ester	115-95-7	CCFD200040	500mg
Acetic Acid-Methyl Ester	79-20-9	CCFD200041	5ml
Acetic Acid-N-Propyl Ester	109-60-4	CCFD200042	2ml
Butylacetate	123-86-4	CCFD200062	2ml
Butyric Acid Methyl Ester	623-42-7	CCFD200064	2ml
Butyric Acid-Butyl Ester	109-21-7	CCFD200065	500mg
Butyric Acid-Ethyl Ester	105-54-4	CCFD200066	500mg
Butyric Acid-Propyl Ester	105-66-8	CCFD200067	500mg
Formic Acid Ethyl Ester	109-94-4	CCFD200132	500mg
Formic Acid-Methyl Ester	107-31-3	CCFD200133	2ml
Formic Acid-Propyl Ester	110-74-7	CCFD200134	2ml
Glutaric Acid (Pentanedioic Acid)	110-94-1	CCFD200137	500mg
Glutaric Acid Dimethyl Ester	1119-40-0	CCFD200138	500mg
Decanoic Acid Ethyl Ester	110-38-3	CCFD200087	500mg
Docosanoic Acid Ethyl Ester	5908-87-2	CCFD200112	100mg
Docosanoic Acid-Methyl Ester	929-77-1	CCFD200113	250mg
Dodecanoic Acid Ethyl Ester	106-33-2	CCFD200115	500mg
Dodecanoic Acid-Methyl Ester	111-82-0	CCFD200116	2ml
Eicosanoic Acid Ethyl Ester	18281-05-5	CCFD200120	100mg
Eicosanoic Acid-Methyl Ester	1120-28-1	CCFD200121	250mg
Decanoic Acid Methyl Ester	110-42-9	CCFD200088	2ml
Decanoic Acid-N-Butyl Ester	30673-36-0	CCFD200089	250mg

Product	CAS No.	Cat No.	Unit
Diethyl Fumarate	623-91-6	CCFD200090	500mg
Cis-11-Octadecenoic Acid Methyl Ester	1937-63-9	CCFD200068	10mg
Adipic Acid-Dimethyl Ester	627-93-0	CCFD200047	250mg
Acetic Acid-Sec.-Butyl Ester	105-46-4	CCFD200043	500mg
Acetic Acid-Tert.-Butyl Ester	540-88-5	CCFD200044	2ml

Unsaturated Fatty Acids And Esters

Product	CAS No.	Cat No.	Unit
Elaidic Acid	112-79-8	CCFD200122	250mg
Elaidic Acid Methyl Ester	1937-62-8	CCFD200123	100mg
Erucic Acid	112-86-7	CCFD200126	250mg
Erucic Acid Methyl Ester	1120-34-9	CCFD200127	100mg
Linoleic Acid Methyl Ester	112-63-0	CCFD200168	250mg
Linolenic Acid	463-40-1	CCFD200169	50mg
Linolenic Acid-Methyl Ester	301-00-8	CCFD200170	100mg
Maleic Acid	110-16-7	CCFD200171	250mg
Myristoleic Acid Methyl Ester	56219-06-8	CCFD200180	50mg
Oleic Acid	112-80-1	CCFD200205	1g
Oleic Acid Methyl Ester	112-62-9	CCFD200206	250mg/1ml
Palmitelaidic Acid Methyl Ester	10030-74-7	CCFD200210	25mg
Palmitoleic Acid	373-49-9	CCFD200212	100mg
Petroselinic Acid-Methyl Ester	2777-58-4	CCFD200220	25mg
Ricinoleic Acid Methyl Ester	141-24-2	CCFD200229	50mg
Tretinoin	302-79-4	CCFD200261	250mg

Vitamin

Product	CAS No.	Cat No.	Unit
(-)-Riboflavin (Vitamin B2)	83-88-5	CCFD200001	250mg
Nicotinic Acid	59-67-6	CCFD200187	250mg
Nicotinamide	98-92-0	CCFD200185	1g
Pyridoxin Hydrochloride (B6-Hcl)	58-56-0	CCFD200228	250mg
Folic Acid	59-30-3	CCFD200130	250mg

Product	CAS No.	Cat No.	Unit
D(+)-Biotin	58-85-5	CCFD200076	250mg
Cyanocobalamin (Vitamin B12)	68-19-9	CCFD200070	50mg
Rutin	153-18-4	CCPE900190	20mg
D-Calcium Pantothenate	137-08-6	CCHM700657	100mg/1g
Beta-Carotene	7235-40-7	CCFD200061	250mg
Vitamin A Acetate	127-47-9	CCFD200275	150mg
Vitamin A Palmitate	79-81-2	CCFD200276	150mg
DL-Alpha-Tocopherylacetate (Vitamin E Acetate)	7695-91-2	CCFD200094	500mg
Vitamin D2	50-14-6	CCFD200277	250mg
Ergosterol (Provitamin D2)	57-87-4	CCFD200125	250mg
Vitamin D3	67-97-0	CCHM700651	200mg/500mg
Vitamin K1	84-80-0	CCFD200278	500mg
Menadione (Vitamin K3)	58-27-5	CCFD200176	250mg
D-Pantothenic Acid Sodium Salt	867-81-2	CCET400099	250mg
Ascorbic Acid Calcium Salt	5743-27-1	CCFD200054	500mg
Ascorbic Acid Sodium Salt (Vitamin C Sodium Salt)	134-03-2	CCFD200055	500mg
Vitamin A	68-26-8	CCHM700908	50mg
Pantothenic Acid Calcium Salt Monohydrate	63409-48-3	CCFD200213	500mg
Thiamine Hydrochloride	67-03-8	CCFD200256	250mg
Thiamine Mononitrate	532-43-4	CCFD200257	500mg
Vitamin A	11103-57-4	CCPE900943	100mg

Aflatoxin

Product	CAS No.	Cat No.	Unit
Aflatoxin B1	1162-65-8	LFOD410201-ME	1ml*100µg/ml in MeOH
Aflatoxin B1	1162-65-8	LFOD410201-AL	1ml*100µg/ml in Acetonitrile
Aflatoxin B2	7220-81-7	LFOD410202-ME	1ml*100µg/ml in MeOH
Aflatoxin B2	7220-81-7	LFOD410202-AL	1ml*100µg/ml in Acetonitrile
Aflatoxin G1	1165-39-5	LFOD410203-ME	1ml*100µg/ml in MeOH
Aflatoxin G1	1165-39-5	LFOD410203-AL	1ml*100µg/ml in Acetonitrile
Aflatoxin G2	7241-98-7	LFOD410204-ME	1ml*100µg/ml in MeOH
Aflatoxin G2	7241-98-7	LFOD410204-AL	1ml*100µg/ml in Acetonitrile
Aflatoxin M1	6795-23-9	LFOD410205-AL	1ml*10µg/ml in Acetonitrile

Chemical Stain

Product	CAS No.	Cat No.	Unit
Sudan 1	842-07-9	CCFD200237	500mg/200mg
Sudan 2	3118-97-6	CCFD200238	500mg/1g
Sudan 3	85-86-9	CCFD200239	500mg/200mg
Sudan 4	85-83-6	CCFD200240	200mg/1g
Sudan Black B	4197-25-5	CCFD200241	250mg
Sudan Blue 2	17354-14-2	CCFD200242	250mg
Sudan Orange G	2051-85-6	CCFD200243	250mg
Sudan Red 7B	6368-72-5	CCFD200244	250mg
Sudan Red B	3176-79-2	CCFD200245	100mg
Sudan Red G	1229-55-6	CCFD200246	250mg
Acid Red 51	568-63-8	CWLT600185	500mg
Para Red	6410-10-2	CWLT600224	100mg
Phloxine B	18472-87-2	CWLT600462	100mg
Riboflavine-5'-Phosphate Sodium	130-40-5	CWLT600522	500mg
Sudan Yellow	60-11-7	CWLT600529	250mg
Diamond Green	569-64-2	CCFD200316	100mg
Betanin	7659-95-2	CCFD200344	250mg
Acid Red 13	2302-96-7	CCFD200345	100mg

Other Food Reference Standards

Product	CAS No.	Cat No.	Unit
Tetrahydrofuran (Thf)	109-99-9	CCEM500721	5ml
Creatine	57-00-1	CCET400090	500mg
(S)-(-)-Limonene	5989-54-8	CCFD200003	500mg
1-Eicosanol (Arachidyl Alcohol)	629-96-9	CCFD200013	250mg
1-Heneicosanol	15594-90-8	CCFD200014	100mg
1-Naphthol	90-15-3	CCFD200015	1g
1-Tetracosanol (Lignoceryl Alcohol)	506-51-4	CCFD200017	100mg
2-Butanol	78-92-2	CCFD200020	5ml
2-Butylamine	13952-84-6	CCFD200021	500mg
4-Aminobenzoic Acid	150-13-0	CCFD200025	2g
4-Hydroxybenzoic Acid-N-Heptyl Ester	1085-12-7	CCFD200030	100mg
Acriflavine	8048-52-0	CCFD200045	250mg
Citric Acid Monohydrate	5949-29-1	CCFD200069	100mg
D-Amygdalin	29883-15-6	CCFD200085	250mg
D-Methorphan Hydrobromide	6700-34-1	CCFD200110	250mg
D-Panthenol	81-13-0	CCFD200117	500mg
Glyodin	556-22-9	CCFD200140	100mg
Gossypol	303-45-7	CCFD200141	100mg
Guanosine-5'-Monophosphate	85-32-5	CCFD200142	100mg
Guanosine-5'-Monophosphate Sodium Salt	N/A	CCFD200143	100mg
Inosine	58-63-9	CCFD200158	100mg
Linalool	78-70-6	CCFD200166	500mg
Menadione Sodium Bisulfite Hydrate	57414-02-5	CCFD200177	250mg
N-Acetyl-L-Selenomethionin	210910-25-1	CCFD200181	10mg
Oxalic Acid (Ethanedioic Acid)	144-62-7	CFAD310510	250mg
Pentachlorophenol Sodium Salt Hydrate	131-52-2	CCFD200214	250mg
Rutin Hydrate	250249-75-3	CCFD200230	1g
Thiothiamine	299-35-4	CCFD200258	1g
Trans-Cinnamyl Alcohol (3-Phenyl-2-Propen-1-Ol)	104-54-1	CCFD200259	500mg
(±)-Octopamine Hydrochloride	770-05-8	CCFD200280	100mg
DI-Tartaric Acid	133-37-9	CCFD200281	100mg
Naringin	10236-47-2	CCFD200285	500mg
Pyranocumarin	518-20-7	CCFD200286	100mg
2-Amino-9-Beta-D-Ribofuranosyl-9H-Purine-6-(1H)-One Hydrate	118-00-3	CCFD200288	250mg

Product	CAS No.	Cat No.	Unit
L-Cysteine	52-90-4	CCFD200289	100mg
Cytidine-5-Monophosphate	63-37-6	CCFD200290	100mg
Uridine	58-96-8	CCFD200291	10mg
Salicin	138-52-3	CCFD200293	20mg
Pyruvic Acid Sodium Salt	113-24-6	CCFD200294	1g
L(+)-Norleucine	327-57-1	CCFD200295	250mg
Tartaric Acid	526-83-0	CFAD310521	500mg
Citric Acid	77-92-9	CFAD310543	500mg
L-Lysine	56-87-1	CCFD200313	1g
Chlorotetracycline	57-62-5	CCFD200319	500mg
Tetracycline	60-54-8	CCFD200320	500mg
(+)-Δ-Tocopherol	119-13-1	CCFD200325	100mg
D-Glucosamine Hydrochloride	66-84-2	CCFD200326	500mg
Sodium Glycinate	6000-44-8	CCFD200335	1g
Isobutyraldehyde	78-84-2	CCFD200336	1ml
Octreotide Acetate	83150-76-9	CCFD200338	100mg
Lecithin	8002-43-5	CCFD200339	250mg
Sterigmatocystin	10048-13-2	CCFD200346	5mg
Ethyl Lactate	97-64-3	CCFD200347	5ml
Anisole	100-66-3	CCFD200348	1g
Potassium Bromate	7758-01-2	CCFD200350	5g
Casein	9000-71-9	CCFD200351	1g
Mannitol	87-78-5	CCFD200353	500mg
Isomalt	64519-82-0	CCFD200354	250mg
Methyl Mercaptan	74-93-1	CCFD200355	500mg 10% in propanediol
Dimethyl Sulfide	75-18-3	CCFD200356	1ml
Tween 60	9005-67-8	CCFD200357	500mg
5'-Inosinicacid	131-99-7	CCFD200358	250mg
Monoacetin	26446-35-5	CCFD200359	2ml
Diacetin	25395-31-7	CCFD200360	1g
Chlorobutanol	57-15-8	CCFD200361	500mg
2-Nonanol	628-99-9	CCFD200362	500mg
Musk Xylene	81-15-2	CCFD200363	250mg
Benzyl Mercaptan	100-53-8	CCFD200367	250mg
5'-Adenylic Acid	61-19-8	CCFD200371	250mg
Fumonisin B1	116355-83-0	CCFD200373	5mg

Food Reference Standards

Product	CAS No.	Cat No.	Unit
(-)-Cotinine	486-56-6	CCFD200374	250mg
DI-Nornicotine	5746-86-1	CCFD200375	25mg
(S)-Anabasine	494-52-0	CCFD200376	25mg
L-Nicotine	54-11-5	CCFD200377	500mg
Melamine	108-78-1	CCFD200174	1g
37 Component Fame Mix	N/A	CCFD901037	100mg
Inositol	87-89-8	CCHM700903	1g
Taurine	107-35-7	CCHM700904	2g
Cytosine	71-30-7	CCFD200372	2g
Adenine	73-24-5	CCPE900716	1g
Uracil	66-22-8	CCHM700652	500mg/1g
Guanine	73-40-5	CCPE900718	1g
6-Hydroxypurine	68-94-0	CCPE900776	1g



CATO Research Chemicals Inc.



Iron box and three layers of sponges are employed in the package of CATO standards so as to avoid the damage caused by negligence during transportation. Moreover, the labels are made from PP synthesized paper that can guard themselves from tearing and damages. Anti-counterfeit labels are also applied surrounding the box so as to make sure that every standard is brand new to the users.

Hot Spot

Clenbuterol

Milk Powder

Plasticizer

Organotin

Aflatoxin

Malachite Green

PAHs

Surface Water Reference Standards

Volatile Organic Compounds

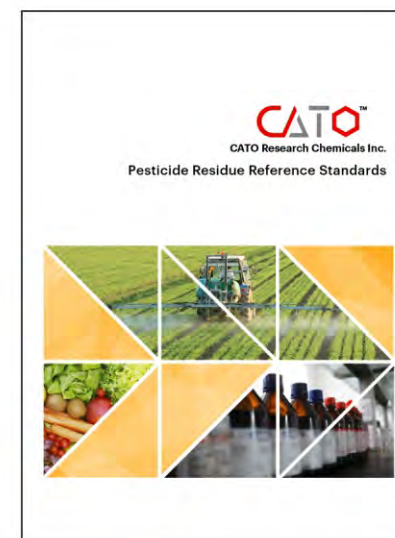
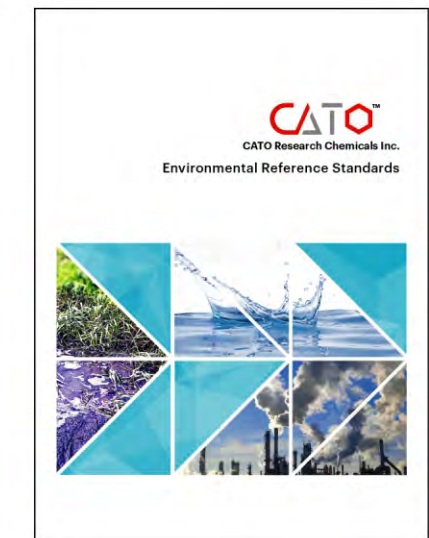
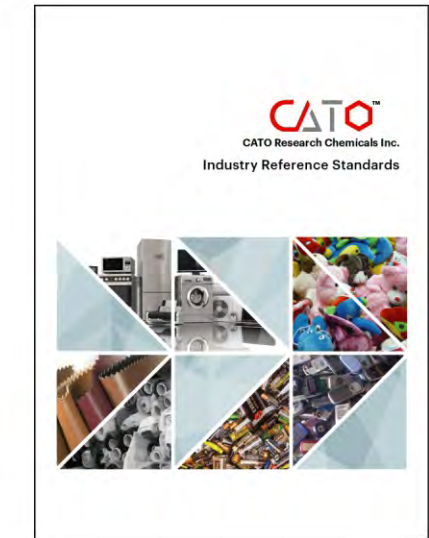
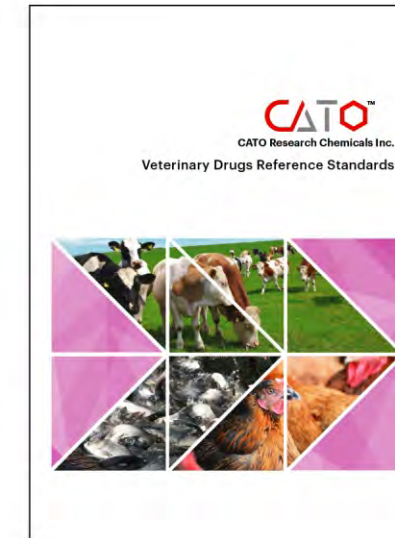
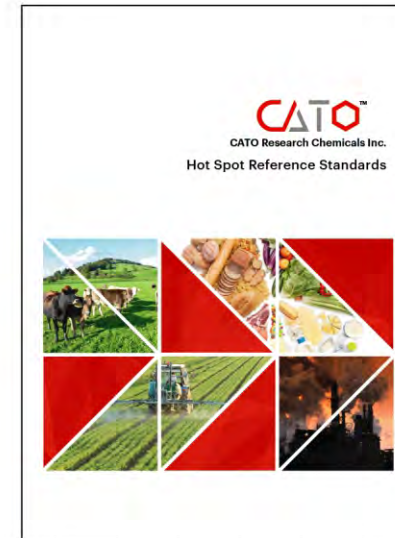
Reach SVHC-Substances Of Very High Concern

Pesticide Residue

Polychlorinated Biphenyls

Polybrominated Biphenyls

The End



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