



ICON ISOTOPES

Product Catalog

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We are proud of the qualifications of Icon's staff, which gives us extensive experience and expertise in synthetics, with more than 39 years exclusively in stable isotopes. Synthetic timeframes and potential capability of synthesis quotations are based on experience which is utilized to temper references in literature.

Icon has been formed exclusively to service researcher requirements for compounds labeled with stable isotopes. Our facilities are totally dedicated to stable isotope production and synthesis.

All of our synthetic work is done in the continental USA. Icon's reputation for quality and service is amongst the best in the industry!

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ICON ISOTOPES

General Information

EXPERIENCE



We are proud of the qualifications of Icon's staff, which gives us extensive experience and expertise in synthetics, with more than 39 years exclusively in stable isotopes. Synthetic timeframes and potential capability of synthesis quotations are based on experience which is utilized to temper references in literature.

Icon has been formed exclusively to service researcher requirements for compounds labeled with stable isotopes. Our facilities are totally dedicated to stable isotope production and synthesis. Radioisotope work is not solicited or undertaken, thus we can guarantee that materials shipped will not have been subjected to radiation exposure in synthesis or during packaging.

Quality -- Each batch of raw Isotope material is checked to ensure that it meets our rigid specifications. Synthetic work is often performed in dedicated vessels and holding cylinders to avoid even trace contamination. Each isotope product may include all or some of the following: boiling point, melting point, infra-red, mass spectroscopy, GC/MS, proton NMR, GC, TLC, HPLC, atomic absorption, and optical rotation to ensure that you are receiving a quality product. Packaging materials are often made to our own specifications to ensure ease of use and to minimize losses in handling and during transportation.



SUPPLY

Delivery -- All of our synthetic work is done in the continental USA and requirements for expedited delivery of Icon products can be handled promptly.

Non-Catalog Items -- At Icon, we welcome the opportunity to provide special quotes on any item not listed in our catalog or for specific requirements that you may have.

FLEXIBILITY

Service -- Our company is dedicated to meeting the special needs of researchers. We are willing to accommodate most special situations as they arise.

Quantity Requirements -- If less than the catalog quantity of a product is required, and the material is in stock, it is our policy to always try and meet our customers' requirements, whatever they may be, and whenever it is possible.



Special Packaging -- Icon's reputation for accommodation, quality, and service extends to meeting customized and specialty packaging requirements whenever possible.

ICON ISOTOPES

Ordering Information

HOW TO PLACE AN ORDER

TELEPHONE ORDERS

Because of the similarity in compounds which may be labeled in different positions or isotopes, we require the following information:

- ▶ Catalog or Quotation Number
- ▶ Product Name and Labeled Position
- ▶ Complete Shipping & Billing Information
- ▶ Purchase Order Number
- ▶ Quantity and Price

* Confirmation Purchase Orders are only required for orders in excess of \$500 (Please be sure that they are clearly marked "CONFIRMATION" to avoid duplication).

FOREIGN ORDERS

Countries in which we have no representation will require a proforma invoice. Upon payment, the order will be shipped as indicated. If you have established an account that is current with us, the normal terms and conditions will apply.

ICON ISOTOPES

Product Catalog

[View entire catalogue online in HTML](#)

[View entire catalogue as a PDF File](#)

Or Click on the category below to see a list of products.

[Bromine-79 & 81 Compounds](#)

[Carbon-12 Compounds](#)

[Carbon-12 enriched Deuterated Solvents](#)

[Deuterium Solvents](#)

[Lithium 6 & 7 Compounds](#)

[Nitrogen-15 Compounds](#)

[Oxygen-16 Compounds](#)

[Oxygen-18 Compounds](#)

[Chlorine-35 & 37 Compounds](#)

[Carbon-13 Compounds](#)

[Deuterium Compounds](#)

[Labeled Gases and Mixtures](#)

[Multiply-Labeled Compounds](#)

[Noble Gas Isotopes](#)

[Oxygen-17 Compounds](#)

[Sulfur-34 Compounds](#)

[Nitrogen-15 in Agronomic applications](#)

[Elements and Compounds - U. S. Services is a trade name](#)

At Icon, we welcome the opportunity to provide special quotes on any item not listed in our catalog or for specific requirements that you may have.

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Bromine 79 & 81 Compounds

(natural abundance 50.54% and 49.46%)

Bromine labeled compounds are currently being used in the life sciences, environmental and ecology studies as tracers.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IB 7605	Ammonium bromide	NH ₄ Br	90	*	<i>request</i>
IB 7615	Bromine gas	Br ₂	90	*	<i>request</i>
IB 7620	Calcium bromide	CaBr ₂	90	*	<i>request</i>
IB 7650	Hydrogen bromide	HBr ₂	90	*	<i>request</i>

* Click [HERE](#) for specific packaging information.
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Chlorine 35 & 37

Chlorine labeled compounds are being used in studies of herbicidal and insecticidal effects on life forms, as well as water, air, and soils.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
Chlorine 35 (natural abundance 75.53%)					
IK 7320	Carbon Tetrachloride	CCl ₄	99	5	0.5g
IK 7322	Chlorine (gas)	Cl ₂	99	2 & 4	100ml / 250ml
IK 7350	Hydrogen chloride	HCl	99	2 & 4	100ml / 250ml
IK 7375	Lithium chloride	LiCl	99	7	0.5g
IK 7380	Methyl chloride	CH ₃ Cl	99	2 & 4	100ml
IK 7400	Potassium chloride	KCl	99	7	0.5g
IK 7425	Sodium chloride	NaCl	99	7	0.5g
IK 7430	Sodium perchlorate	NaClO ₄	99	7	0.5g
Chlorine 37 (natural abundance 24.47%)					
IK 7465	Carbon Tetrachloride	CCl ₄	95	5	0.25g
IK 7470	Chlorine (gas)	Cl ₂	95	2 & 4	100ml
IK 7500	Hydrogen chloride	HCl	95	2 & 4	100ml / 250ml
IK 7525	Lithium chloride	LiCl	95	7	0.5g
IK 7530	Methyl chloride	CH ₃ Cl	95	2 & 4	100ml
IK 7540	Potassium chloride	KCl	95	7	0.5g
IK 7555	Sodium chloride	NaCl	95	7	1.0g
IK 7560	Sodium perchlorate	NaClO ₄	95	7	0.5g
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED					

ICON ISOTOPES

Carbon-12 Compounds

(natural abundance 98.892%)

Stable isotope starting materials are normally produced by separation of the naturally occurring element. Carbon monoxide is usually the choice when isolating carbon-12. The carbon-13 is reduced to 5% of its natural abundance (down to 0.05%). Commonly used in organic reaction mechanisms work and similar studies when carbon-12 can act as a "negative label."

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IC 2602	*Acetic Acid-1,2- ¹² C ₂	CH ₃ CO ₂	99.9	5	<i>request</i>
IC 2605	*Acetone Acid-1,2,3- ¹² C ₃	CH ₃ COCH ₃	99.9	5	0.5
IC 2607	Acetylene-1,2- ¹² C ₂	C ₂ H ₂	99.9	2 & 4	1000ml
IC 2615	Barium Carbonate- ¹² C	BaCO ₃	99.9	8	10.0g
IC 2620	*Bromoethane-1,2- ¹² C ₂	CD ₃ CD ₂ Br	99.9	5	1.0g
IC 2635	Carbon Amorphous- ¹² C	C	99.9	7	1.0g
IC 2640	*Carbon Dioxide- ¹² C	CO ₂	99.9	1 & 4	1000ml
IC 2643	Carbon Monoxide- ¹² C	CO	99.95	1 & 4	1000ml
IC 2644	Carbon Tetrachloride- ¹² C	CCl ₄	99.9	5	1.0g
IC 2676	Ethylene-1,2- ¹² C ₂	CH ₂ = CH ₂	99.9	1 & 4	500ml
IC 2692	Formamide- ¹² C	HCONH ₂	99.9	5	1.0g
IC 2695	Formic Acid- ¹² C	HCO ₂ H	99.9	8	0.5g
IC 2740	D-Glucose-1- ¹² C	HOCH ₂ (CHOH) ₄ CHO	99.9	7	<i>request</i>
IC 2780	*Methyl Iodide- ¹² C	CD ₃ I	99.9	8	2.0g
IC 2797	Methyl Alcohol- ¹² C	CH ₃ OH	99.9	8	5.0g
IC 2799	Methyl Formate- ¹² C	HCOOCH ₃	99.9	7	1.0g
IC 2845	Potassium Cyanide- ¹² C	KCN	99.9	7	1.0g
IC 2901	Sodium Acetate-1- ¹² C	CH ₃ COONa	99.9	7	1.0g
IC 2902	Sodium Acetate-1,2- ¹² C ₂	CH ₃ COONa	99.9	7	1.0g
IC 2905	Sodium Bicarbonate- ¹² C	NaHCO ₃	99.9	7	10.0g
IC 2908	Sodium Cyanide- ¹² C	NaCN	99.9	7	1.0g
IC 2912	Sodium Formate- ¹² C	HCOONa	99.9	7	1.0g
IC 2940	*Urea- ¹² C	H ₂ NCONH ₂	99.9	7	1.0g

* These Compounds are also available [multiply-labeled](#).

WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

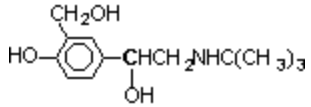
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Carbon-13 Compounds

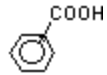
(natural abundance 1.108%)

Carbon-13 is normally produced by separation of the naturally occurring element. Carbon monoxide is usually the choice when isolating Carbon-13. Compounds are synthesized from 99atom% minimum material, however, slight dilution of enrichment may occur in multi-step synthesis and in compounds labeled in two positions when statistically each will contain 98% carbon-13. This catalog offers each compound at the highest enrichment possible. Should your research require a lesser enrichment, please request a custom quotation that we will conform to your specific needs.

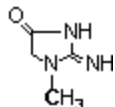
Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IC 3005	Acetaldehyde-1- ¹³ C	CH ₃ CHO	99	6	0.5g
IC 3006	Acetaldehyde-1,2- ¹³ C ₂	CH ₃ CHO	99	5	1.0g
IC 3008	*Acetic Acid-1- ¹³ C	CH ₃ COOH	99	5	0.5g / 1.0g
IC 3009	*Acetic Acid-2- ¹³ C	CH ₃ COOH	99	5	0.25g / 1.0g
IC 3010	Acetic Acid-1,2- ¹³ C	CH ₃ COOH	99	5	0.25g / 0.5g
IC 3015	Acetic Anhydride-1,1- ¹³ C ₂	(CH ₃ CO) ₂ O	99	5	0.5g
IC 3016	Acetic Anhydride-2,2- ¹³ C ₂	(CH ₃ CO) ₂ O	99	5	0.5g
IC 3017	Acetic Anhydride-1,1,2,2- ¹³ C ₄	(CH ₃ CO) ₂ O	99	5	0.25g
IC 3020	Acetone-2- ¹³ C	CH ₃ COCH ₃	99	5	0.5g
IC 3021	Acetone-1,3- ¹³ C ₂	CH ₃ COCH ₃	99	5	0.5g
IC 3022	*Acetone-1,2,3- ¹³ C ₃	CH ₃ COCH ₃	99	5	0.5g
IC 3025	*Acetonitrile-1- ¹³ C	CH ₃ CN	99	5	0.5g
IC 3026	Acetonitrile-2- ¹³ C	CH ₃ CN	99	5	0.25g / 0.5g
IC 3027	Acetonitrile-1,2- ¹³ C ₂	CH ₃ CN	99	5	0.25g
IC 3030	Acetophenone-1- ¹³ C	CH ₃ COC ₆ H ₅	99	5	1.0g
IC	Acetophenone-2- ¹³ C	CH ₃ COC ₆ H ₅	99	5	1.0g

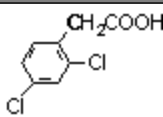
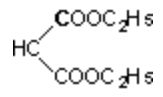
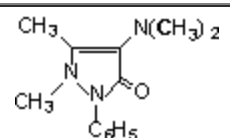
3031					
IC 3035	Acetyl Bromide-1- ¹³ C	CH ₃ COBr	99	5	1.0g
IC 3036	Acetyl Bromide-2- ¹³ C	CH ₃ COBr	99	5	1.0g
IC 3037	Acetyl Bromide-1,2- ¹³ C ₂	CH ₃ COBr	99	5	<i>request</i>
IC 3040	Acetyl Chloride-1- ¹³ C	CH ₃ COCl	99	5	1.0g
IC 3041	Acetyl Chloride-2- ¹³ C	CH ₃ COCl	99	5	0.5g
IC 3042	Acetyl Chloride-1,2- ¹³ C ₂	CH ₃ COCl	99	5	0.5g
IC 3045	Acetylene-1- ¹³ C	CH = CH	99	2 & 4	100ml
IC 3046	*Acetylene-1,2- ¹³ C ₂	HC = CH	99	2 & 4	100ml / 250ml / 1000ml
IC 3048	N-Acetylglycine-1,2- ¹³ C ₂	CH ₃ CONHCH ₂ CO ₂ H	99	5	0.25g
IC 3050	Adenine-2- ¹³ C	C ₅ H ₅ N ₅	99	7	0.5g
IC 3052	Adenine-8- ¹³ C	C ₅ H ₅ N ₅	99	7	0.5g
IC 3055	DL-Alanine-1- ¹³ C	CH ₃ CH(NH ₂)COOH	99	7	0.25g / 1.0g
IC 3056	L-Alanine-1- ¹³ C	CH ₃ CH(NH ₂)COOH	99	7	0.5g
IC 3057	DL-Alanine-2- ¹³ C	CH ₃ CH(NH ₂)COOH	99	7	0.25g
IC 3058	L-Alanine-2- ¹³ C	CH ₃ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 3059	DL-Alanine-3- ¹³ C	CH ₃ CH(NH ₂)COOH	99	7	1.0g
IC 3060	*L-Alanine-3- ¹³ C	CH ₃ CH(NH ₂)COOH	99	7	1.0g
IC 3061	DL-Alanine-1,2,3- ¹³ C ₃	CH ₃ CH(NH ₂)COOH	99	7	0.25g
IC 9230	Albuterol-α'- ¹³ C		99	7	0.25g
IC 3062	P-Aminobenzoic Acid-carboxyl- ¹³ C	p-NH ₂ C ₆ H ₄ COOH	99	7	0.5g
IC 3063	DL-2-Aminobutyric Acid-1- ¹³ C	CH ₃ CH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 9240	DL-2-Aminobutyric Acid-3- ¹³ C	CH ₃ CH ₂ CH(NH ₂)COOH	99	7	1.0g

IC 9245	L-2-Aminobutyric Acid-3- ¹³ C	CH ₃ C H ₂ CH(NH ₂)COOH	99	7	1.0g
IC 9250	4-Aminobutyric Acid-1- ¹³ C	H ₂ N C H ₂ CH ₂ CH ₂ COOH	99	7	1.0g
IC 3064	5-Aminolevulinic-5- ¹³ C Acid	H ₂ N C H ₂ COCH ₂ CH ₂ COOH	99	7	0.05g
IC 3065	Aniline- ¹³ C ₆	C ₆ H ₅ NH ₂	99	5	0.25g
IC 3066	Aniline Chloride- ¹³ C ₆	C ₆ H ₅ NH ₃ Cl	99	7	0.25g
IC 3067	Aniline Sulfate- ¹³ C ₆	(C ₆ H ₅ NH ₂) ₂ ·H ₂ SO ₄	99	7	0.25g
IC 3068	L-Arginine- ¹³ C (Guanidine labeled)	H ₂ N C (NH)NH(CH ₂) ₃ CH(NH ₂)COOH	99	7	0.5g
IC 9260	L-Arginine- ¹³ C·HCl (Guanidine labeled)	H ₂ N C (NH)NH(CH ₂) ₃ CH(NH ₂)COOH·HCl	99	7	1.0g
IC 9265	DL-Arginine-1- ¹³ C	H ₂ NC(NH)NH(CH ₂) ₃ CH(NH ₂) C OOH	99	7	1.0g
IC 3069	L-Arginine-1- ¹³ C	H ₂ NC(NH)NH(CH ₂) ₃ CH(NH ₂) C OOH	99	7	1.0g
IC 3070	D-Arabinose-1- ¹³ C	CH ₂ OH(CHOH) ₃ C HO	99	7	0.25g
IC 3071	D-Arabinose-2- ¹³ C	CH ₂ OH(CHOH) ₂ C HOHCHO	99	7	0.25g
IC 3072	L-Asparagine-4- ¹³ C	H ₂ N C COCH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 9250	4-Aminobutyric Acid-1- ¹³ C	H ₂ N C H ₂ CH ₂ CH ₂ COOH	99	7	1.0g
IC 3064	5-Aminolevulinic-5- ¹³ C Acid	H ₂ N C H ₂ COCH ₂ CH ₂ COOH	99	7	0.05g
IC 3065	Aniline- ¹³ C ₆	C ₆ H ₅ NH ₂	99	5	0.25g
IC 3066	Aniline Chloride- ¹³ C ₆	C ₆ H ₅ NH ₃ Cl	99	7	0.25g
IC 3067	Aniline Sulfate- ¹³ C ₆	(C ₆ H ₅ NH ₂) ₂ ·H ₂ SO ₄	99	7	0.25g
IC 3068	L-Arginine- ¹³ C (Guanidine labeled)	H ₂ N C (NH)NH(CH ₂) ₃ CH(NH ₂)COOH	99	7	0.5g
IC 3080	Barium Carbonate- ¹³ C	Ba C O ₃	99	7	5.0g / 10.0g
IC 3083	Benzaldehyde-carbonyl- ¹³ C	C ₆ H ₅ CHO	99	5	0.5g / 1.0g
IC 9280	Benzamide-ring-1- ¹³ C		99	7	1.0g
IC 3084	Benzamide-carbonyl- ¹³ C	C ₆ H ₅ CONH ₂	99	5	1.0g

IC 3085	Benzene-U- ¹³ C ₆	C₆H₆	99	5	0.1g
IC 3086	Benzenesulfonyl Chloride-U- ¹³ C ₆	C₆H₅SO₂Cl	99	7	<i>request price</i>
IC 3087	Benzoic Acid-carbonyl- ¹³ C	C₆H₅COOH	99	7	0.5g / 1.0g
IC 3088	Benzoic Acid-1- ¹³ C		99	7	<i>request price</i>
IC 3089	Benzoic Acid- ¹³ C ₆ (Ring labeled)	C₆H₅COOH	99	7	0.5g
IC 3090	Benzophenone- ¹³ C (Carbonyl labeled)	C₆H₅COC₆H₅	99	5	0.25g
IC 3091	Benzophenone- ¹³ C ₁₂ (Ring labeled)	C₆H₅COC₆H₅	99	5	<i>request price</i>
IC 3092	Benzoyl Chloride- ¹³ C (Ring labeled)	C₆H₅COCl	99	5	<i>request price</i>
IC 3093	Benzoyl Chloride-carbonyl- ¹³ C	C₆H₅COCl	99	5	0.25g / 0.5g
IC 3095	Benzyl Alcohol- ¹³ C ₆ (Ring labeled)	C₆H₅CH₂OH	99	5	0.1g
IC 3096	Benzyl Alcohol-7- ¹³ C	C₆H₅CH₂OH	99	5	0.5g
IC 3097	Benzyl Chloride-7- ¹³ C	C₆H₅CH₂Cl	99	5	0.5g
IC 3098	Benzyl Cyanide-1- ¹³ C	C₆H₅CH₂CN	99	5	0.5g
IC 3099	Benzyl Cyanide-2- ¹³ C	C₆H₅CH₂CN	99	5	0.5g
IC 3100	Bromoacetic Acid-1- ¹³ C	BrCH₂COOH	99	5	0.5g / 1.0g
IC 3101	Bromoacetic Acid-2- ¹³ C	BrCH₂COOH	99	5	0.25g / 1.0g
IC 3102	Bromoacetic Acid-1,2- ¹³ C ₂	BrCH₂COOH	99	5	0.5g / 1.0g
IC 9290	Bromoacetonitrile-1,2- ¹³ C ₂	BrCH₂CN	99	5	1.0g
IC 3103	Bromobenzene-U- ¹³ C ₆	C₆H₅Br	99	5	0.5g
IC 3104	1-Bromododecane-1- ¹³ C	CH₃(CH₂)₁₀CH₂Br	99	5	0.5g
IC 3105	Bromoethane-1- ¹³ C	CH₃CH₂Br	99	5	1.0g
IC 3106	Bromoethane-2- ¹³ C	CH₃CH₂Br	99	5	0.5g

IC 3107	Bromoethane-1,2- ¹³ C ₂	CH₃CH₂Br	99	5	1.0g
IC 3110	Bromoform- ¹³ C	CHBr₃	99	7	0.5g
IC 3113	Bromomethane- ¹³ C	CH₃Br	99	2 & 4	250ml/1000ml
IC 3115	2-Bromopropane-2- ¹³ C	(CH₃)₂CHBr	99	5	0.5g
IC 9295	n-Butane-1- ¹³ C	CH₃CH₂CH₂CH₃	99	2 & 4	100ml/250ml/1000ml
IC 3116	n-Butanol-1- ¹³ C	CH₃CH₂CH₂CH₂OH	99	5	1.0g
IC 3117	1-Butene-1- ¹³ C	CH₃CH₂CH = CH₂	99	2 & 4	100ml
IC 3118	1-Butene-4- ¹³ C	CH₃CH₂CH = CH₂	99	2 & 4	200ml
IC 3120	n-Butyl Alcohol-1- ¹³ C	CH₃CH₂CH₂CH₂OH	99	5	0.5g
IC 3125	tert-Butyl Chloride- ¹³ C	(CH₃)₃CCl	99	5	0.5g
IC 3147	n-Butyric Acid-1- ¹³ C	CH₃CH₂CH₂COOH	99	5	1.0g
IC 3148	iso-Butyric Acid-1- ¹³ C	(CH₃)₂CHCOOH	99	5	1.0g
IC 3150	Calcium Carbonate- ¹³ C	CaCO₃	97+	7	1.0g
IC 3152	Caproic Acid-1- ¹³ C	CH₃(CH₂)₄COOH	99	5	1.0g
IC 3155	Carbon-13 (Amorphous)	C	99	7	0.25g / 1.0g
IC 3157	Carbon Dioxide- ¹³ C (contain apprex. 5% ¹⁸ O)	CO₂	99	1 & 4	100ml / 250ml
IC 3158	*Carbon Dioxide- ¹³ C (contain apprex. 1.5% ¹⁸ O)	CO₂	99	1 & 4	100ml / 250ml /1000ml
IC 3160	Carbon Disulfide- ¹³ C	CS₂	99	6	0.5g
IC 3164	*Carbon Monoxide- ¹³ C (contain apprex. <1% ¹⁸ O)	CO	99	1 & 4	100ml / 250ml /1000ml
IC 3165	*Carbon Monoxide- ¹³ C (contain apprex. 10-12% ¹⁸ O)	CO	99	1 & 4	100ml / 250ml /1000ml
IC 3168	Carbon Tetrachloride- ¹³ C	CCl₄	99	5	1.0g
IC 3170	Carbonyl Sulfide- ¹³ C	COS	99	2	250ml
IC 3172	Chloroacetic Acid-1- ¹³ C	ClCH₂COOH	99	7	0.5g
IC 3173	Chloroacetic Acid-2- ¹³ C	ClCH₂COOH	99	7	0.25g

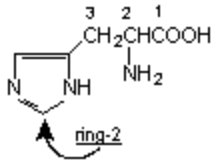
IC 3174	Chloroacetic Acid-1,2- ¹³ C ₂	ClCH ₂ COOH	99	7	0.25g
IC 3176	Chloroacetyl Chloride-1- ¹³ C	ClCH ₂ COCl	99	5	0.5g
IC 3177	Chloroacetyl Chloride-2- ¹³ C	ClCH ₂ COCl	99	5	0.25g
IC 3178	Chloroacetyl Chloride-1,2- ¹³ C ₂	ClCH ₂ COCl	99	5	0.25g
IC 3179	Chlorobenzene-U- ¹³ C ₆	C ₆ H ₅ Cl	99	5	0.25g
IC 3180	4-Chlorobenzoic Acid-carbonyl- ¹³ C	ClC ₆ H ₄ COOH	99	7	1.0g
IC 3185	Chloroethane-1,2- ¹³ C ₂	CH ₃ CH ₂ Cl	99	5	0.5g
IC 3186	Chloroform- ¹³ C	CHCl ₃	99	5	0.5g
IC 3190	Chloromethane- ¹³ C	CH ₃ Cl	99	2 & 4	500ml
IC 3192	Cholic Acid-24- ¹³ C	C ₂₃ H ₃₉ O ₃ COOH	99	7	0.25g
IC 3194	Choline Bromide- ¹³ C (Methyl labeled)	HOCH ₂ CH ₂ N ⁺ (CH ₃) ₂ CH ₃ Br ⁻	99	7	1.0g
IC 3195	Choline Chloride-1,2- ¹³ C ₂	HOCH ₂ CH ₂ N ⁺ (CH ₃) ₃ Cl ⁻	99	7	0.25g
IC 3196	Creatine-4- ¹³ C	NH ₂ C(NH)N(CH ₃)CH ₂ COOH	99	7	1.0g
IC 3200	Creatinine- ¹³ C (Methyl labeled)		99	7	0.5g
IC 3205	*Cuprous Cyanide- ¹³ C	CuCN	99	7	1.0g
IC 3215	*Cyanamide- ¹³ C	NCNH ₂	99	7	0.5g
IC 3216	Cyanoacetic Acid-1- ¹³ C	CNCH ₂ COOH	99	5	1.0g
IC 3217	Cyanoacetic Acid-2- ¹³ C	CNCH ₂ COOH	99	5	1.0g
IC 3220	Cyanoacetic Acid- ¹³ C (Cyanide labeled)	CNCH ₂ COOH	99	5	1.0g
IC 3222	Cyanuric Chloride-U- ¹³ C ₃	C ₃ N ₃ Cl ₃	99	5	0.5g
IC 3225	Cyclopentanone-1- ¹³ C	C ₄ H ₈ CO	99	5	0.5g
IC 3227	L-Cysteine-1- ¹³ C	HSCH ₂ CH(NH ₂)COOH	99	7	1.0g

IC 3228	L-Cystine-1,1'- ¹³ C ₂	$\text{-[SCH}_2\text{CH(NH}_2\text{)COOH]}_2$	99	7	1.0g
IC 3230	Diazomethane- ¹³ C (sold as precursor)	$\text{CH}_3\text{N(NO)SO}_2\text{C}_6\text{H}_4\text{CH}_3$	99	8	1.0g
IC 3235	1,2-Dibromoethane-1,2- ¹³ C ₂	$\text{BrCH}_2\text{CH}_2\text{Br}$	99	5	1.0g
IC 3236	1,5-Dibromopentane-1,5- ¹³ C ₂	$\text{BrCH}_2(\text{CH}_2)_3\text{CH}_2\text{Br}$	99	5	0.25g
IC 3238	1,2-Dichloroethane-1,2- ¹³ C ₂	$\text{ClCH}_2\text{CH}_2\text{Cl}$	99	5	0.1g
IC 3240	Dichloromethane- ¹³ C	CH_2Cl_2	99	5	0.5g
IC 3241	2,4-Dichlorophenylacetic- α - ¹³ C Acid		99	7	1.0g
IC 3242	Dicyandiamide-1,2- ¹³ C ₂	$\text{H}_2\text{NC(N)NHCN}$	99	7	0.25g
IC 3245	Diethyl Acetamidomalonate-2- ¹³ C	$\text{CH}_3\text{CONHCH(CO}_2\text{C}_2\text{H}_5)_2$	99	7	1.0g
IC 3247	Diethyl Malonate-1- ¹³ C		99	7	1.0g
IC 3248	Diethyl Malonate-2- ¹³ C	$\text{CH}_2(\text{COOCH}_2\text{CH}_3)_2$	99	5	0.5g
IC 3249	Diethyl Malonate-1,3- ¹³ C ₂	$\text{CH}_2(\text{CO}_2\text{C}_2\text{H}_5)_2$	99	5	0.5g
IC 3250	Diethyl Malonate-1,2,3- ¹³ C ₃	$\text{CH}_2(\text{CO}_2\text{C}_2\text{H}_5)_2$	99	5	0.25g
IC 3251	Dimethylamine·HCl- ¹³ C ₂	$(\text{CH}_3)_2\text{NH}\cdot\text{HCl}$	99	7	1.0g
IC 3252	4-Dimethylaminoantipyrine (N,N Dimethyl- ¹³ C ₂)		99	7	1.0g
IC 3255	Dimethyl Formamide-carbonyl- ¹³ C	$\text{HCON(CH}_3)_2$	99	5	0.5g
IC 3260	Dimethyl- ¹³ C ₂ Sulfate	$(\text{CH}_3)_2\text{SO}_4$	99	5	1.0g
IC 3261	Dimethyl- ¹³ C ₂ Sulfone	$(\text{CH}_3)_2\text{SO}_2$	99	7	1.0g
IC 3262	Dimethyl- ¹³ C ₂ Sulfoxide	$(\text{CH}_3)_2\text{SO}$	99	5	1.0g
IC 3265	Dodecanedioic Acid-1,12- ¹³ C ₂	$\text{HOOC(CH}_2)_{10}\text{COOH}$	99	7	1.0g
IC 3266	Dodecanoic Acid-1- ¹³ C (Lauric Acid)	$\text{CH}_3(\text{CH}_2)_{10}\text{COOH}$	99	7	1.0g


IC 3285	Dodecyl Bromide-1- ¹³ C	CH ₃ (CH ₂) ₁₀ CH ₂ Br	99	7	0.5g
IC 3305	Ethane-1- ¹³ C	CH ₃ CH ₃	99	1 & 4	100ml
IC 3306	Ethane-1,2- ¹³ C ₂	CH ₃ CH ₃	99	1 & 4	100ml
IC 3313	4-Ethoxy-1- ¹³ C Acetanilide (Phenacetin)	CH ₃ CH ₂ OC ₆ H ₄ NHCOCH ₃	99	7	1.0g
IC 3315	Ethyl Acetate-1- ¹³ C	CH ₃ COOCH ₂ CH ₃	99	5	0.25g / 0.5g
IC 3316	Ethyl Acetate-2- ¹³ C	CH ₃ COOCH ₂ CH ₃	99	5	0.25g / 0.5g
IC 3320	Ethyl Alcohol-1- ¹³ C	CH ₃ CH ₂ OH	99	5	0.5g
IC 3321	Ethyl Alcohol-2- ¹³ C	CH ₃ CH ₂ OH	99	5	1.0g
IC 3322	Ethyl Alcohol-1,2- ¹³ C ₂	CH ₃ CH ₂ OH	99	5	0.5g
IC 3325	Ethylamine-1- ¹³ C	CH ₃ CH ₂ NH ₂	99	5	0.5g
IC 3330	Ethyl Bromoacetate-1- ¹³ C	BrCH ₂ COOCH ₂ CH ₃	99	5	1.0g
IC 3331	Ethyl Bromoacetate-2- ¹³ C	BrCH ₂ COOCH ₂ CH ₃	99	5	1.0g
IC 3332	Ethyl Bromoacetate-1,2- ¹³ C ₂	BrCH ₂ COOCH ₂ CH ₃	99	5	0.5g
IC 3335	Ethyl Chloride-1,2- ¹³ C ₂	CH ₃ CH ₂ Cl	99	2 & 4	0.5g
IC 3338	Ethyl Chloroacetate-1- ¹³ C	ClCH ₂ COOCH ₂ CH ₃	99	5	1.0g
IC 3339	Ethyl Chloroacetate-2- ¹³ C	ClCH ₂ COOCH ₂ CH ₃	99	5	1.0g
IC 3241	Ethyl Cyanoacetate-1,2,3- ¹³ C ₃	NCCH ₂ COOC ₂ H ₅	99	5	1.0g
IC 3345	Ethylene-1- ¹³ C	CH ₂ = CH ₂	99	1 & 4	100ml
IC 3346	*Ethylene-1,2- ¹³ C ₂	CH ₂ = CH ₂	99	1 & 4	100ml
IC 3348	Ethylene Glycol-1,2- ¹³ C ₂	HOCH ₂ CH ₂ OH	99	1 & 4	1.0g
IC 3350	Ethylene Oxide-1,2- ¹³ C ₂ (Stab., with Hydroquinone)	CH ₂ CH ₂ O	99	6	0.5g
IC 3355	Ethyl Iodide-1- ¹³ C	CH ₃ CH ₂ I	99	5	1.0g

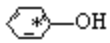
IC 3356	Ethyl Iodide-2- ¹³ C	CH₃CH₂I	99	5	0.5g / 1.0g
IC 3370	Ethyl Iodide-1,2- ¹³ C ₂	CH₃CH₂I	99	5	0.5g
IC 3375	Ethyl Linolenate-1- ¹³ C	CH ₃ (CH ₂ CH=CH) ₃ (CH ₂) ₇ CO ₂ C ₂ H ₅	99	5	1.0g
IC 3380	Ethynylmagnesium Bromide-1,2- ¹³ C ₂ (1 M in THF)	HC≡CMgBr	99	5	10.0g
IC 3410	N-FMOC-L-2-Aminobutylic -3- ¹³ C Acid	$\begin{array}{c} \text{CH}_3\text{CH}_2\text{CHCOOH} \\ \\ \text{NH-FMOC} \end{array}$	99	7	1.0g
IC 3415	N-FMOC-Glycine-2- ¹³ C	$\begin{array}{c} \text{CHCOOH} \\ \\ \text{NH-FMOC} \end{array}$	99	7	1.0g
IC 3430	Formaldehyde- ¹³ C (20% Aqueous)	CH₂O	99	5	0.5g / 1.0g
IC 3435	*Formamide- ¹³ C	HCONH₂	99	5	0.5g / 1.0g
IC 3440	*Formic Acid- ¹³ C	HCOOH	99	5	0.25g / 0.5g
IC 3460	D-Fructose-1- ¹³ C	HOCH ₂ (CHOH) ₃ COCH ₂ OH	99	7	0.25g
IC 3461	D-Fructose-2- ¹³ C	HOCH ₂ (CHOH) ₃ CO CH ₂ OH	99	7	1.0g
IC 3490	D-Galactose-1- ¹³ C	HOCH ₂ (CHOH) ₄ CHO	99	7	0.25g
IC 3530	D-Glucose-1- ¹³ C	HOCH ₂ (CHOH) ₄ CHO	99	7	0.25g
IC 3533	D-Glucose-2- ¹³ C	HOCH ₂ (CHOH) ₃ CH (OH)CHO	99	7	1.0g
IC 3534	D-Glucose-5- ¹³ C	HOCH ₂ CH (OH)(CHOH) ₃ CHO	99	7	1.0g
IC 3531	D-Glucose-6- ¹³ C	HO CH ₂ (CHOH) ₄ CHO	99	7	0.1g
IC 3532	D-Glucose-U- ¹³ C ₆	C₆H₁₂O₆	99	7	0.1g
IC 3539	L-Glutamine-1,2- ¹³ C ₂	H ₂ NCO(CH ₂) ₂ CH (NH ₂)COOH	99	7	1.0g
IC 3540	DL-Glutamic Acid-1- ¹³ C	HOOC(CH ₂) ₂ CH(NH ₂) COOH	99	7	0.5g
IC 3541	DL-Glutamic Acid-2- ¹³ C	HO ₂ CCH ₂ CH ₂ CH (NH ₂)CO ₂ H	99	7	<i>request price</i>
IC 3542	DL-Glutamic Acid-5- ¹³ C	HO ₂ C (CH ₂) ₂ CH(NH ₂)CO ₂ H	99	7	0.25g
IC 3545	L-Glutamic Acid-1- ¹³ C	HOOC(CH ₂) ₂ CH(NH ₂) COOH	99	7	0.5g

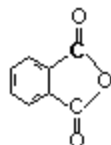
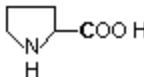
IC 3550	L-Glutamine-1- ¹³ C	H ₂ NCO(CH ₂) ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 3555	DL-Glyceraldehyde-1- ¹³ C	CH ₂ OHCHOHCHO	99	7	1.0g
IC 3556	Glycerol-2- ¹³ C	HOCH ₂ CH(OH)CH ₂ OH	99	5	1.0g
IC 3557	Glycerol-1,2,3- ¹³ C ₃	HOCH ₂ CH(OH)CH ₂ OH	99	5	1.0g
IC 3558	Glycerol Trioctanoate-1,1',1''- ¹³ C ₃	(C ₇ H ₁₅ CO ₂ CH ₂) ₂ CHO ₂ CC ₇ H ₁₅	99	5	1.0g
IC 3560	*Glycine-1- ¹³ C	H ₂ NCH ₂ COOH	99	7	0.25g / 1.0g
IC 3561	*Glycine-2- ¹³ C	H ₂ NCH ₂ COOH	99	7	0.5g
IC 3562	*Glycine-1,2- ¹³ C ₂	H ₂ NCH ₂ COOH	99	7	1.0g
IC 3563	Glycine-1,2- ¹³ C ₂ Isopropyl Ester ·HCl	HCl·H ₂ NCH ₂ CO ₂ CH(CH ₃) ₂	99	7	1.0g
IC 3570	Glycolic Acid-1- ¹³ C	HOCH ₂ COOH	99	7	1.0g
IC 3571	Glycolic Acid-1- ¹³ C Sodium Salt	HOCH ₂ COONa	99	7	1.0g
IC 3572	Glycolic Acid-2- ¹³ C	HOCH ₂ COOH	99	7	1.0g
IC 3587	Guanidine Bromide- ¹³ C	(H ₂ N) ₂ C = NH·HBr	99	7	1.0g
IC 3590	Guanidine Nitrate- ¹³ C	(H ₂ N) ₂ C = NH·HNO ₃	99	7	<i>request price</i>
IC 3610	Heptadecanoic Acid-1- ¹³ C	CH ₃ (CH ₂) ₁₅ CO ₂ H	99	7	1.0g
IC 3615	Hexachloroethane-1,2- ¹³ C ₂	Cl ₃ CCl ₃	99	7	<i>request price</i>
IC 3618	Hexadecanoic Acid-1- ¹³ C (Palmitic Acid)	CH ₃ (CH ₂) ₁₄ COOH	99	7	1.0g
IC 3619	Hexadecanoic Acid-1,2- ¹³ C ₂	CH ₃ (CH ₂) ₁₃ CH ₂ COOH	99	7	0.1g
IC 3623	Hexane-1- ¹³ C	CH ₃ (CH ₂) ₄ CH ₃	99	7	1.0g
IC 3625	1,6-Hexanediamine-1,6- ¹³ C ₂	H ₂ NCH ₂ (CH ₂) ₄ CH ₂ NH ₂	99	7	1.0g
IC 3630	Hexanoic Acid-1- ¹³ C (Caproic Acid)	CH ₃ (CH ₂) ₄ COOH	99	7	1.0g
IC 3635	Hippuric Acid-1- ¹³ C	C ₆ H ₅ CONHCH ₂ COOH	99	7	1.0g

IC 3636	Hippuric Acid-2- ¹³ C	C ₆ H ₅ CONHCH ₂ COOH	99	7	1.0g
IC 3638	DL-Histidine-1- ¹³ C		99	7	0.5g
IC3639	L-Histidine-1- ¹³ C		99	7	0.5g
IC 3640	L-Histidine-2- ¹³ C		99	7	0.5g
IC 3641	DL-Histidine-ring-2- ¹³ C		99	7	0.5g
IC 3642	L-Histidine-ring-2- ¹³ C		99	7	0.5g
IC 3643	L-Histidine-ring-2- ¹³ C·HCl		99	7	0.5g
IC 3645	DL-4-Hydroxyphenylalanine-1- ¹³ C (Tyrosine)		HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7
IC 3646	L-4-Hydroxyphenylalanine-1- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	0.1g
IC 3647	DL-4-Hydroxyphenylalanine-2- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	0.1g
IC 3660	DL-4-Hydroxyphenylalanine-3- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	0.1g
IC 3680	Iodoacetic Acid-1- ¹³ C	ICH ₂ COOH	99	7	0.5g
IC 3681	Iodoacetic Acid-2- ¹³ C	ICH ₂ COOH	99	7	0.5g
IC 3685	Iodoethane-1- ¹³ C	CH ₃ CH ₂ I	99	5	1.0g
IC 3686	Iodoethane-2- ¹³ C	CH ₃ CH ₂ I	99	5	0.5g
IC 3690	Iodoethane-1,2- ¹³ C ₂	CH ₃ CH ₂ I	99	5	0.5g
IC 3693	Isobutane-2- ¹³ C	(CH ₃) ₃ CH	99	2 & 4	250ml/1000ml
IC 3695	Isobutyric Acid-1- ¹³ C	(CH ₃) ₂ CHCO ₂ H	99	6	1.0g
IC 3710	DL-Isoleucine-1- ¹³ C	C ₂ H ₅ CH(CH ₃)-CHNH ₂ COOH	99	7	<i>request price</i>
IC 3711	L-Isoleucine-1- ¹³ C	C ₂ H ₅ CH(CH ₃)-CHNH ₂ COOH	99	7	<i>request price</i>
IC 3725	Isopropanol-2- ¹³ C	CH ₃ CH(OH)CH ₃	99	5	1.0g
IC 3730	Isopropyl Formate-carbonyl- ¹³ C	HCOOCH(CH ₃) ₂	99	5	1.0g

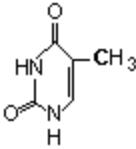
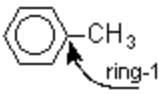
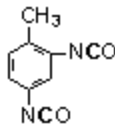
IC 3902	Lactic Acid-U- ¹³ C ₃ Sodium Salt	CH₃CH(OH)COONa	99	7	1.0g
IC 3904	Lauryl Alcohol-1- ¹³ C	CH₃(CH₂)₁₀CH₂OH	99	5	1.0g
IC 3910	DL-Leucine-1- ¹³ C	(CH₃)₂CHCH₂CH(NH₂)COOH	99	7	1.0g
IC 3911	L-Leucine-1- ¹³ C	(CH₃)₂CHCH₂CH(NH₂)COOH	99	7	1.0g
IC 3920	Lithium Acetate-2- ¹³ C	CH₃CO₂Li	99	7	1.0g
IC 3921	Lithium Acetate-1,2- ¹³ C ₂	CH₃CO₂Li	99	7	1.0g
IC 3930	DL-Lysine-1- ¹³ C·2HCl	H₂N(CH₂)₄CH(NH₂)COOH·2HCl	99	7	0.5g
IC 3933	L-Lysine-1- ¹³ C	H₂N(CH₂)₄CH(NH₂)COOH	99	7	1.0g
IC 3931	L-Lysine-1- ¹³ C·HCl	H₂N(CH₂)₄CH(NH₂)COOH·HCl	99	7	0.25g
IC 3932	L-Lysine-2- ¹³ C·HCl	H₂N(CH₂)₄CH(NH₂)COOH·HCl	99	7	<i>request price</i>
IC 3934	DL-Lysine-2- ¹³ C·HCl	H₂N(CH₂)₄CH(NH₂)COOH·HCl	99	7	1.0g
IC 3960	L-Lysine-1,2- ¹³ C ₂ ·HCl	H₂N(CH₂)₄CH(NH₂)COOH·HCl	99	7	<i>request price</i>
IC 3965	D-Lyxose-1- ¹³ C	HOCH₂(CH₂OH)₃CHO	99	7	0.25g
IC 3980	Malonic Acid-1- ¹³ C	HO₂CCH₂CO₂H	99	7	0.5g
IC 3981	Malonic Acid-2- ¹³ C	HO₂CCH₂CO₂H	99	7	0.5g
IC 3982	Malonic Acid-1,2- ¹³ C ₂	HO₂CCH₂CO₂H	99	7	0.25g
IC 3983	Malonic Acid-1,3- ¹³ C ₂	HOOCCH₂COOH	99	7	0.5g
IC 3984	Malonic Acid-1,2,3- ¹³ C ₃	HO₂CCH₂CO₂H	99	7	0.25g
IC 3986	D-Mannose-1- ¹³ C	CH₂OH(CHOH)₄CHO	99	7	0.25g
IC 3988	D-Mannose-2- ¹³ C	CH₂OH(CHOH)₃CHOHCHO	99	7	0.25g
IC 3990	Melamine-U- ¹³ C ₃	C₃N₆H₆	99	7	0.5g
IC 4000	*Methane- ¹³ C	CH₄	99	1 & 4	100ml / 250ml / 1000ml
IC 4004	Methanesulfonic Acid- ¹³ C	CH₃SO₃H	99	7	1.0g
IC 4006	*L-Methionine- ¹³ C (Methyl labeled)	CH₃SCH₂CH₂CH(NH₂)COOH	99	7	1.0g

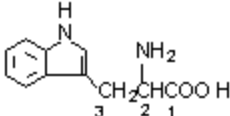
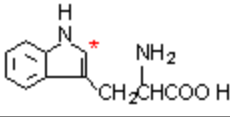
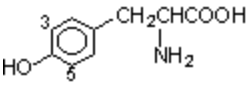
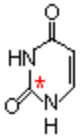
IC 4007	L-Methionine-1- ¹³ C	CH ₃ SCH ₂ CH ₂ CH(NH ₂)COOH	99	7	1.0g
IC 4008	L-Methionine-2- ¹³ C	CH ₃ SCH ₂ CH ₂ CH(NH ₂)COOH	99	7	1.0g
IC 4015	Methyl Alcohol- ¹³ C	CH ₃ OH	99	5&8	0.5g / 1.0g
IC 4019	Methylamine- ¹³ C	CH ₃ NH ₂	99	2&4	250ml/1000ml
IC 4020	Methylamine·HCl- ¹³ C	CH ₃ NH ₂ ·HCl	99	5	0.5g
IC 4025	Methyl Benzoate- ¹³ C (carboxyl labeled)	C ₆ H ₅ COOCH ₃	99	5	1.0g
IC 4030	Methyl Bromide- ¹³ C	CH ₃ Br	99	1&4	1.0g
IC 4036	Methyl Chloride- ¹³ C	CH ₃ Cl	99	1&4	1.0g
IC 4040	Methylene Chloride- ¹³ C	CH ₂ Cl ₂	99	5	0.5g
IC 4050	Methyl Formate Carbonyl- ¹³ C	HCOOCH ₃	99	5	1.0g
IC 4055	Methylene Fluoride- ¹³ C	CH ₂ F ₂	99	1&4	100ml/250ml
IC 4060	Methyl Fluoride- ¹³ C (Fluoromethane)	CH ₃ F	99	1&4	100ml
IC 4065	Methyl Formate- ¹³ C	HCOOCH ₃	99	5	1.0g
IC 4070	*Methyl Iodide- ¹³ C	CH ₃ I	99	5&8	1.0g
IC 4090	Methylphenylcarbinol- ¹³ C	C ₆ H ₅ CH(OH)CH ₃	99	5	1.0g
IC 4148	Myristic Acid-1- ¹³ C	CH ₃ (CH ₂) ₁₂ COOH	99	5	1.0g
IC 4160	Naphthalene-1- ¹³ C		99	7	1.0g
IC 4175	Nitrobenzene-U- ¹³ C ₆	C ₆ H ₅ NO ₂	99	5	0.25g
IC 4185	4-Nitrobenzoic Acid- ¹³ C (carboxyl labeled)	O ₂ NC ₆ H ₄ COOH	99	7	1.0g
IC 4200	Nitromethane- ¹³ C	CH ₃ NO ₂	99	5	0.5g
IC 4230	Octadecanoic Acid-1- ¹³ C	CH ₃ (CH ₂) ₁₆ COOH	99	7	1.0g
IC 4235	Octanoic Acid-1- ¹³ C	CH ₃ (CH ₂) ₆ COOH	99	7	1.0g
IC 4240	Oleic Acid-1- ¹³ C	CH ₃ (CH ₂) ₇ CH=CH(CH ₂) ₇ CO ₂ H	99	7	0.5g

IC 4260	L-Ornithine-1- ¹³ C·HCl	H ₂ N(CH ₂) ₃ CH(NH ₂)CO ₂ H·HCl	99	7	1.0g
IC 4261	L-Ornithine-1,2- ¹³ C ₂ ·HCl	H ₂ N(CH ₂) ₃ CH(NH ₂)CO ₂ H·HCl	99	7	1.0g
IC 4285	Oxalic Acid-1,2- ¹³ C ₂ (dihydrate)	(COOH) ₂ ·2H ₂ O	99	7	0.5g
IC 4290	Oxalyl Chloride-1,2- ¹³ C ₂	(COCl) ₂	99	5	<i>request price</i>
IC 4305	*Paraformaldehyde- ¹³ C	(CH ₂ O) _x	99	7	1.0g
IC 3313	Penacetin-ethoxy-1- ¹³ C	CH ₃ CH ₂ OC ₆ H ₄ NHCOCH ₃	99	7	1.0g
IC 4308	Pentanol-1- ¹³ C	CH ₃ (CH ₂) ₃ CH ₃	99	5	1.0g
IC4314	Phenol-ring-1- ¹³ C		99	7	0.5g
IC 4315	Phenol-U- ¹³ C ₆	C ₆ H ₅ OH	99	5	0.1g
IC 4317	Pentanoic Acid-1- ¹³ C	CH ₃ (CH ₂) ₃ COOH	99	7	1.0g
IC 4318	Phenylacetic Acid-1- ¹³ C	C ₆ H ₅ CH ₂ COOH	99	7	1.0g
IC 4319	Phenylacetic Acid-2- ¹³ C	C ₆ H ₅ CH ₂ COOH	99	7	0.5g
IC 4321	Phenylacetonitrile-1- ¹³ C	C ₆ H ₅ CH ₂ CN	99	5	0.5g
IC 4322	Phenylacetonitrile-2- ¹³ C	C ₆ H ₅ CH ₂ CN	99	5	0.5g
IC 4325	*DL-Phenylalanine-1- ¹³ C	C ₆ H ₅ CH ₂ CH(NH ₂)COOH	99	7	0.5g
IC 4326	L-Phenylalanine-1- ¹³ C	C ₆ H ₅ CH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 4327	DL-Phenylalanine-2- ¹³ C	C ₆ H ₅ CH ₂ CH(NH ₂)COOH	99	7	0.1g
IC 4328	L-Phenylalanine-2- ¹³ C	C ₆ H ₅ CH ₂ CH(NH ₂)COOH	99	7	0.05g
IC 4329	DL-Phenylalanine-3- ¹³ C	C ₆ H ₅ CH ₂ CH(NH ₂)COOH	99	7	0.5g
IC 4330	L-Phenylalanine-ring- ¹³ C ₆	C ₆ H ₅ CH ₂ CH(NH ₂)COOH	99	7	0.5g
IC 4332	1-Phenylethanol-1- ¹³ C	C ₆ H ₅ CH(OH)CH ₃	99	7	1.0g
IC 4335	Phenylethylamine-1- ¹³ C	C ₆ H ₅ CH ₂ CH ₂ NH ₂	99	7	0.5g
IC 4336	Phenylethylamine-2- ¹³ C	C ₆ H ₅ CH ₂ CH ₂ NH ₂	99	5	0.25g
IC 4340	Phosgene- ¹³ C	COCl ₂	99	3	250ml

IC 4343	Phthalic Acid-carboxyl-1- ¹³ C	HOCC ₆ H ₄ COOH	99	7	0.5g
IC 4344	Phthalic Anhydride-carboxyl-1- ¹³ C		99	7	1.0g
IC 9350	Potassium Bicarbonate- ¹³ C	KHCO ₃	99	7	1.0g
IC 4345	*Potassium Carbonate- ¹³ C	K ₂ CO ₃	99	7	1.0g
IC 4348	Potassium Cyanate- ¹³ C	KOCN	99	7	0.5g
IC 4350	*Potassium Cyanide- ¹³ C	KCN	99	7	1.0g
IC 4355	Potassium Thiocyanate- ¹³ C	KCNS	99	7	0.5g
IC 4357	Potassium Tetracyanonickelate·H ₂ O - ¹³ C ₄	K ₂ [Ni(CN) ₄]·H ₂ O	99	7	1.0g
IC 4358	L-Proline-1- ¹³ C		99	7	1.0g
IC 4360	Propane-2- ¹³ C	CH ₃ CH ₂ CH ₃	99	1 & 4	100ml
IC 4362	1,3-Propanediol-2- ¹³ C	(HOCH ₂) ₂ CH ₂	99	5	0.1g
IC 4370	Propene-1- ¹³ C	CH ₃ CH = CH ₂	99	1 & 4	100ml
IC 4371	Propene-2- ¹³ C	CH ₃ CH = CH ₂	99	1 & 4	100ml
IC 4372	Propene-3- ¹³ C	CH ₃ CH = CH ₂	99	1 & 4	100ml
IC 4373	Propionic Acid-1- ¹³ C	CH ₃ CH ₂ COOH	99	7	0.25g / 1.0g
IC 4376	Pyruvic-2,3- ¹³ C ₂ Acid, Sodium Salt	CH ₃ COCOONa	99	7	1.0g
IC 4450	D-Ribose-1- ¹³ C	HOCH ₂ (CHOH) ₃ CHO	99	7	0.1g
IC 4605	Salicylic Acid-carboxyl- ¹³ C	HOC ₆ H ₅ COOH	99	7	0.25g
IC 4610	Sarcosine ¹³ C (N-methyl labeled)	CH ₃ NHCH ₂ COOH	99	5	0.5g
IC 4615	DL-Serine-1- ¹³ C	HOCH ₂ CH(NH ₂)COOH	99	7	0.5g
IC 4616	L-Serine-1- ¹³ C	HOCH ₂ CH(NH ₂)COOH	99	7	0.5g

IC 9370	L-Serine-2- ¹³ C	HOCH ₂ CH(NH ₂)COOH	99	7	1.0g
IC 4617	DL-Serine-3- ¹³ C	HOCH ₂ CH(NH ₂)COOH	99	7	0.5g
IC 4618	L-Serine-3- ¹³ C	HOCH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 4620	Silver Cyanide- ¹³ C	AgCN	99	7	<i>request price</i>
IC 4622	*Sodium Acetate-1- ¹³ C	CH ₃ COONa	99	7	1.0g
IC 4623	*Sodium Acetate-2- ¹³ C	CH ₃ COONa	99	7	0.5g / 1.0g
IC 4624	Sodium Acetate-1,2- ¹³ C ₂	CH ₃ COONa	99	7	0.5g / 1.0g
IC 4628	Sodium Bicarbonate- ¹³ C	NaHCO ₃	99	7	2.0g
IC 4632	Sodium Butyrate-1- ¹³ C	CH ₃ CH ₂ CH ₂ COONa	99	7	1.0g
IC 4633	Sodium Butyrate-2- ¹³ C	CH ₃ CH ₂ CH ₂ COONa	99	7	0.5g
IC 4634	Sodium Butyrate-4- ¹³ C	CH ₃ CH ₂ CH ₂ COONa	99	7	0.1g
IC 4636	Sodium Carbonate- ¹³ C	Na ₂ CO ₃	99	7	1.0g
IC 4640	*Sodium Cyanide- ¹³ C	NaCN	99	7	1.0g
IC 4645	Sodium Formate- ¹³ C	HCOONa	99	7	1.0g
IC 4650	Sodium Isobutyrate-1- ¹³ C	(CH ₃) ₂ CHCO ₂ Na	99	7	0.5g
IC 4652	Sodium DL-Lactate-1- ¹³ C	CH ₃ CH(OH)COONa	99	7	0.1g
IC 4655	Sodium 2-Methylbutyrate-1- ¹³ C	CH ₃ CH ₂ CH(CH ₃)COONa	99	7	1.0g
IC 4656	Sodium Methylpropionate-1- ¹³ C	(CH ₃) ₂ CHCOONa	99	7	1.0g
IC 4658	Sodium Octanoate-1- ¹³ C	CH ₃ (CH ₂) ₆ COONa	99	7	1.0g
IC 4660	Sodium Oxalate- ¹³ C ₂	(COONa) ₂	99	7	1.0g
IC 4662	*Sodium Propionate-1- ¹³ C	CH ₃ CH ₂ COONa	99	7	0.5g / 1.0g
IC 4663	Sodium Propionate-2- ¹³ C	CH ₃ CH ₂ COONa	99	7	0.5g
IC 4664	Sodium Propionate-3- ¹³ C	CH ₃ CH ₂ COONa	99	7	1.0g

IC 4665	Sodium Propionate-1,2- ¹³ C ₂	CH ₃ CH ₂ COONa	99	7	1.0g
IC 4666	Sodium Pyruvate-1- ¹³ C	CH ₃ COCOONa	99	7	1.0g
IC 4667	Sodium Pyruvate-2- ¹³ C	CH ₃ C OCONa	99	7	1.0g
IC 4668	Sodium Pyruvate-3- ¹³ C	CH ₃ COCOONa	99	7	1.0g
IC 4670	Sodium Thiocyanate- ¹³ C	NaSCN	99	7	0.1g
IC 4672	Styrene-α- ¹³ C (stab. w. Hydroquinone)	C ₆ H ₅ CH = CH ₂	99	5	<i>request price</i>
IC 4675	Succinic Acid-2,3- ¹³ C ₂	HO ₂ CCH ₂ CH ₂ CO ₂ H	99	7	1.0g
IC 4676	Succinic Acid-1,4- ¹³ C ₂	HOOC(CH ₂) ₂ C OOH	99	7	1.0g
IC 4678	Tetramethylsilane- ¹³ C ₄	(CH ₃) ₄ Si	5/10	5	2.0g
IC 4682	Thiourea- ¹³ C	C S(NH ₂) ₂	99	7	0.5g
IC 9390	DL-Threonine-1- ¹³ C	CH ₃ CH(OH)CH(NH ₂) C O ₂ H	99	7	1.0g
IC 9395	L-Threonine-1- ¹³ C	CH ₃ CH(OH)CH(NH ₂) C O ₂ H	99	7	1.0g
IC 4684	D-Threose-1- ¹³ C	HOCH ₂ (CH ₂ OH) ₂ C HO	99	7	0.25g
IC 4685	Thymine- ¹³ C (Methyl Labeled)		99	7	1.0g
IC 4690	Toluene-7- ¹³ C	C ₆ H ₅ CH ₃	99	5	1.0g
IC 4691	Toluene-ring-1- ¹³ C		99	5	<i>request price</i>
IC 4692	Toluene-U- ¹³ C ₇	C ₆ H ₅ CH ₃	99	5	1.0g
IC 4693	Toluene-2,4-diisocyanate- ¹³ C ₂		99	5	1.0
IC 4695	P-Toluic Acid-carbonyl- ¹³ C	CH ₃ C ₆ H ₄ C OOH	99	7	1.0g
IC 4697	Trichloroacetic Acid-1,2- ¹³ C ₂	Cl ₃ C COOH	99	7	1.0g
IC 4698	Trichloroacetyl Chloride-1,2- ¹³ C ₂	Cl ₃ C COCl	99	5	1.0g

IC 4700	Trimethylamine·HCl- ¹³ C	(CH ₃) ₃ CH ₃ N·HCl	99	7	0.5g
IC 4710	L-Tryptophan-1- ¹³ C		99	7	<i>request price</i>
IC 4711	DL-Tryptophan-1- ¹³ C		99	7	<i>request price</i>
IC 4712	DL-Tryptophan-2- ¹³ C		99	7	0.25g
IC 4713	DL-Tryptophan-3- ¹³ C		99	7	<i>request price</i>
IC 4714	L-Tryptophan-indole-2- ¹³ C			99	7
IC 4747	L-Tyrosine-1- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 4748	DL-Tyrosine-1- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 4749	L-Tyrosine-2- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 4750	L-Tyrosine-3- ¹³ C	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IC 4752	L-Tyrosine-ring-3,5- ¹³ C ₂		99	7	<i>request price</i>
IC 4751	Uracil-2- ¹³ C		99	7	0.5g
IC 4760	*Urea- ¹³ C	H ₂ NCONH ₂	99	7	0.5g / 1.0g
IC 4830	DL-Valine-1- ¹³ C	(CH ₃) ₂ CHCH(NH ₂)COOH	99	7	1.0g
IC 4831	*L-Valine-1- ¹³ C	(CH ₃) ₂ CHCH(NH ₂)COOH	99	7	<i>request price</i>
IC 4832	DL-Valine-2- ¹³ C	(CH ₃) ₂ CHCH(NH ₂)COOH	99	7	<i>request price</i>
IC 4900	D-Xylose-1- ¹³ C	HOCH ₂ (CH ₂ OH) ₃ CHO	99	7	0.25g

* These Compounds are also available [multiply-labeled](#).
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

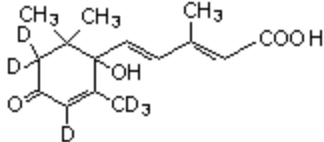
Carbon-12 enriched Deuterated Solvents

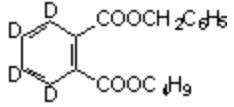
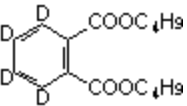
Commonly used when natural abundance Carbon-13 peaks interfere with the spectrum of the material being studied. Carbon-12 solvents (depleted in Carbon-13) eliminate this problem.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IC 2505	Acetic Acid-1,2- ¹² C ₂ ,d ₄	CD ₃ COOD	99.9:98	5	1.0g
IC 2510	Acetonitrile-1,2- ¹² C ₃ ,d ₃	CD ₃ CN	99.9:98	5	0.5g
IC 2520	Chloroform- ¹² C,d	CDCl ₃	99.9:98	5	<i>request</i>
IC 2530	Dimethyl Sulphoxide- ¹² C ₂ ,d ₆	(CD ₃) ₂ SO	99.9:98	5	1.0g
IC 2570	Methyl Alcohol- ¹² C,d ₄	CD ₃ OD	99.9:98	5	5.0g
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED					


ICON ISOTOPES

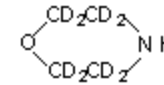

Deuterium Compounds

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
ID 1001	(±)-2-cis,4-trans-Abscisic Acid-d ₆		98	7	1.0g
ID 1002	Acenaphthene-d ₁₀	C ₁₂ D ₁₀	98	7	5.0g
ID 1003	Acetaldehyde-1-d ₁	CH ₃ CDO	98	7	5.0g
ID 1004	Acetaldehyde-d ₄	CD ₃ CDO	99	4	5.0g
ID 1008	Acetamide-d ₅	CD ₃ COND ₂	98	7	5.0g
ID 1009	Acetic Anhydride-d ₆	(CD ₃ CO) ₂ O	99	5	5.0g
ID 1011	Acetophenone-d ₃	CD ₃ COC ₆ H ₅	98	5	10.0g
ID 1013	Acetophenone-2,3,4,5,6-d ₅	CH ₃ COC ₆ D ₅	98	5	5.0g
ID 1012	Acetyl-d ₃ Chloride	CD ₃ COCl	98	5	1.0g
ID 1015	*Acetylene-d ₂	C ₂ D ₂	99	4	1000ml
ID 1017	Adipic Acid-d ₈	HOOC(CD ₂) ₄ COOH	98	7	5.0g
ID 1018	Adipic Acid-d ₁₀	DOOC(CD ₂) ₄ COOD	98	7	10.0g
ID 1020	DL-Alanine-2-d ₁	CH ₃ CD(NH ₂)COOH	98	7	1.0g
ID 1021	DL-Alanine-3,3,3-d ₃	CD ₃ CH(NH ₂)COOH	98	7	1.0g
ID 1022	L-Alanine-d ₄	CD ₃ CD(NH ₂)COOH	98	7	1.0g
ID 1025	*Ammonia-d ₃ (Anhydrous)	ND ₃	98	2 & 4	5L / 10L
ID 1027	Ammonium Acetate-d ₇	CD ₃ COOND ₄	98	7	10.0g
ID 1028	Ammonium Bromide-d ₄	ND ₄ Br	98	7	5.0g
ID 1029	*Ammonium Chloride-d ₄	ND ₄ Cl	98	7	5.0g
ID 1031	*Ammonium Sulfate-d ₈	(ND ₄) ₂ SO ₄	98	7	5.0g
ID 1032	Aniline-d ₅	C ₆ D ₅ NH ₂	98	5	5.0g
ID 1033	Aniline-d ₇	C ₆ D ₅ ND ₂	98	5	5.0g
ID 1037	p-Anisaldehyde-d ₁	CH ₃ OC ₆ H ₄ CDO	98	5	5.0g
ID 1038	Anisole-d ₅	C ₆ D ₅ OCH ₃	98	5	5.0g
ID 1042	Benzaldehyde-d ₁	C ₆ H ₅ CDO	98	5	5.0g
ID 1043	Benzaldehyde-ring-d ₅	C ₆ D ₅ CHO	98	5	5.0g
ID 1044	Benzaldehyde-d ₆	C ₆ D ₅ CDO	98	5	5.0g
ID 1050	Benzene-1,3,5-d ₃	C ₆ H ₃ D ₃	98	5	5.0g
ID 1051	Benzene-1,2,4,5-d ₄	C ₆ H ₂ D ₄	98	5	1.0g
ID 1053	1,3-Benzenediamine-d ₈	C ₆ D ₄ (ND ₂) ₂	98	5	1.0g
ID 1055	Benzoic Acid-d ₆	C ₆ D ₅ COOD	98	7	5.0g
ID 1057	Benzonitrile-d ₅	C ₆ D ₅ CN	99	5	5.0g

ID 1059	Benzophenone-2,3,4,5,6-d ₅	C ₆ D ₅ COC ₆ H ₅	98	5	5.0g
ID 1060	Benzyl- α,α -d ₂ Alcohol	C ₆ H ₅ CD ₂ OH	98	5	5.0g
ID 1061	Benzyl-d ₇ Alcohol	C ₆ D ₅ CD ₂ OH	98	5	5.0g
ID 9010	Benzyl n-Butyl Phthalate-3,4,5,6-d ₄		98	5	10.0g
ID 1060	Benzyl Chloride-d ₅	C ₆ D ₅ COCl	99	5	5.0g
ID 1063	Bisphenol A-d ₁₆	(CD ₃)C(C ₆ D ₄ OD) ₂	98	7	10.0g
ID 1065	Bromobenzene-d ₅	C ₆ D ₅ Br	99	5	10.0g
ID 9020	1-Bromoeicosane-d ₄₁	CD ₃ (CD ₂) ₁₉ Br	98	7	5.0g
ID 1066	Bromoethane-1,1-d ₂	CH ₃ CD ₂ Br	98	5	5.0g
ID 1067	Bromoethane-2,2,2-d ₃	CD ₃ CH ₂ Br	98	5	5.0g
ID 1068	*Bromoethane-d ₅	CD ₃ CD ₂ Br	99	5	10.0g
ID 1070	1,3-Butadiene-2,3-d ₂	CH ₂ =CD ₂ CD=CH ₂	98	1&4	0.5L/5L
ID 1071	1,3-Butadiene-d ₆	CD ₂ =CD ₂ CD=CD ₂	98	1&4	0.5L/5L
ID 1072	n-Butane-1,1,1,4,4,4-d ₆	CD ₃ CH ₂ CH ₂ CD ₃	98	1&4	0.5L/5L
ID 1073	n-Butane-2,2,3,3-d ₄	CH ₃ CD ₂ CD ₂ CH ₃	98	1&4	0.5L/5L
ID 1075	n-Butyl Alcohol-d ₉	CD ₃ CD ₂ CD ₂ CD ₂ OH	98	5	5.0g
ID1077	Calcium Deuterioxide	Ca(OD) ₂	98	7	10.0g
ID 1080	Chlorobenzene-d ₅	C ₆ D ₅ Cl	99	5	5.0g
ID 1083	Chrysene-d ₁₂	C ₁₈ D ₁₂	98	7	1.0g
ID 1085	Coronene-d ₁₂	C ₂₄ D ₁₂	98	7	0.5g
ID 1110	1,4-Cyclohexanedione-d ₈		98	5	5.0g
ID 1113	Cyclohexanol-d ₁₂	C ₆ D ₁₁ OD	98	5	5.0g
ID 9030	Cyclohexanone-d ₁₀	C ₆ D ₁₀ O	98	5	5.0g
ID 1114	Cyclopentane-d ₁₀	C ₅ D ₁₀	99	5	1.0g
ID 1120	Deuterium Bromide-d ₁ (Anhydrous)	DBr	99	2 & 4	5L / 10L
ID 1121	Deuterium Chloride (Anhydrous)	DCl	99	2 & 4	5L / 25L
ID 1125	Deuterium Gas	D ₂	99.5	2 & 4	25L / 50L
ID 1126	Deuterium Fluoride	DF	99	2 & 4	10L
ID 1127	Deuterium Hydride	DH	98	2 & 4	1000ml / 5L
ID 1128	Deuterium Iodide	DI	99	2 & 4	1000ml
ID 1130	Deuterium Peroxide (30% in D ₂ O)	D ₂ O ₂	98	5	5.0g / 10.0g
ID 9035	Deuterium Sulfide-d ₂	D ₂ S	98	2&4	1L/5L
ID 1131	1,4-Dibromobenzene-d ₄	BrC ₆ D ₄ Br	98	5	5.0g
ID 1135	1,2-Dibromoethane (1,2-d ₂)	BrCHDCHDBr	98	5	10.0g
ID 1136	*1,2-Dibromoethane-d ₄	BrCD ₂ CD ₂ Br	99	5	25.0g
ID 1137	Di-n-butyl Phthalate-3,4,5,6-d ₄		98	5	10.0g

ID 1138	Dichloroethane-d ₄	<chem>ClC(D)ClC(D)Cl</chem>	99	5	5.0g
ID 1139	Dicyclohexyl Phthalate-3,4,5,6-d ₄		98	7	10.0g
ID 9040	Di-2-ethylhexyl Adipate-d ₈		98	7	10.0g
ID 1140	Diethylmalonate-d ₂	<chem>CC(=O)OCC(D)C(=O)OCC</chem>	99	5	10.0g
ID 1141	Diethyl Phthalate-3,4,5,6-d ₄		98	5	10.0g
ID 1143	2,6-Dimethylnaphthalene-d ₁₂	<chem>Cc1ccc(C)cc1</chem>	98	5	10.0g
ID 1144	2,7-Dimethylnaphthalene-d ₁₂	<chem>Cc1ccc(C)cc1</chem>	98	5	10.0g
ID 1145	Dimethyl Sulfate-d ₆	<chem>C(S)(C)C(=O)O</chem>	99	5	10.0g
ID 9050	Dimethyl Sulfone-d ₆	<chem>C(S)(C)S(=O)C</chem>	98	7	5.0g
ID 9055	Dimethyl Sulfoxide-d ₆	<chem>C(S)C(=O)O</chem>	98	5	5.0g
ID 1146	Diphenyl-d ₁₀	<chem>Cc1ccc(C)cc1</chem>	98	7	5.0g
ID 1147	Dipentyl Phthalate-3,4,5,6-d ₄		98	5	10.0g
ID 1148	DL-1,4-Dithiothreitol-d ₁₀		98	7	1.0g
ID 1149	n-Dodecane-d ₂₆	<chem>CCCCCCCCCCCC</chem>	98	5	5.0g
ID 1150	Durene-d ₁₄	<chem>Cc1ccc(C)cc1</chem>	98	7	1.0g
ID 1160	Ethane-1,2-d ₂	<chem>CC</chem>	99	2 & 4	1000ml
ID 1161	Ethane-d ₁	<chem>CC</chem>	99	2 & 4	1000ml
ID 1162	Ethane-1,1,1-d ₃	<chem>CC</chem>	98	2 & 4	1000ml
ID 1163	Ethane-1,1,2,2-d ₄	<chem>CC</chem>	99	2 & 4	1000ml
ID 1164	Ethane-d ₅	<chem>CC</chem>	99	2 & 4	1000ml
ID 1165	Ethane-d ₆	<chem>CC</chem>	99	2 & 4	1000ml
ID 1168	Ethanedithiol-d ₄	<chem>CS</chem>	98	5	5.0g
ID 1169	Ethanolamine-1,1,2,2-d ₄	<chem>CCN</chem>	98	5	5.0g
ID 1170	Ethyl Alcohol-1,1-d ₂	<chem>CCO</chem>	98	5	5.0g
ID 1171	Ethyl Alcohol-2,2,2-d ₃	<chem>CCO</chem>	98	5	5.0g
ID 1173	Ethyl Alcohol-d ₅	<chem>CCO</chem>	99	5	5.0g
ID 1175	Ethylamine-d ₅ HCl	<chem>CCN</chem>	99	5	5.0g
ID 1177	Ethyl Benzene-d ₁₀	<chem>CCc1ccccc1</chem>	98	5	5.0g
ID 1178	Ethyl Bromide-d ₅	<chem>CCBr</chem>	99	5	10.0g
ID 1179	Ethylene-1-d	<chem>C=C</chem>	98	2 & 4	1000ml
ID 1180	Ethylene-1,2-d ₂ (cis)	<chem>C=C</chem>	98	2 & 4	1000ml
ID 1181	Ethylene-1,2-d ₂ (trans)	<chem>C=C</chem>	98	2 & 4	1000ml
ID 1182	*Ethylene-d ₄	<chem>C=C</chem>	99	2 & 4	1000ml

ID 9070	Ethylenediaminetetraacetic Acid-d ₁₆	$\begin{matrix} \text{CD}_2\text{N}(\text{CD}_2\text{COOD})_2 \\ \\ \text{CD}_2\text{N}(\text{CD}_2\text{COOD})_2 \end{matrix}$	98	7	5.0g
ID 1183	Ethylene Glycol-d ₄	CD ₂ OHCD ₂ OH	99	5	5.0g
ID 1184	Ethylene Glycol-d ₆	DOCD ₂ CD ₂ OD	99	5	5.0g
ID 1185	Ethyl Iodide-d ₅	CD ₃ CD ₂ I	99	5	5.0g
ID 1186	Ethylene Oxide-d ₄	[CD ₂ CD ₂ O]	98	4	5.0g
ID 1188	Fluoranthene-d ₁₀		98	7	10.0g
ID 1190	Formaldehyde-d ₂	CD ₂ O	98	5	5.0g
ID 1195	Formic Acid-d ₂	DCOOD	99	5	5.0g
ID 1196	*Formic-d ₁ Acid	DCOOH	99	5	5.0g
ID 1226	Fumaric-2,3-d ₂ Acid	HOCCCD = CD ₂ COOH	98	7	5.0g
ID 1235	Glutamic-2,2,4,4-d ₄ Acid	HOCCCCD ₂ CH ₂ CD ₂ COOH	98	7	5.0g
ID 1239	Glycerol-d ₅	(CD ₂ OH) ₂ CDOH	98	5	5.0g
ID 1240	Glycerol-d ₈	(CD ₂ OD) ₂ CDOD	98	5	1.0g
ID 1250	Glycine-2,2-d ₂	NH ₂ CD ₂ COOH	98	7	5.0g
ID 1255	Glycine-d ₅	ND ₂ CD ₂ COOD	98	7	5.0g
ID 1280	Huppuric Acid-ring-d ₅	C ₆ D ₅ CONHCH ₂ COOH	98	7	1.0g
ID 1285	Hydrazine-d ₄	ND ₂ ND ₂ COOH	98	7	5.0g
ID 1286	Hydrazine Hydrate-d ₆	ND ₂ ND ₂ D ₂ O	98	5	20.0g
ID 1290	Hydroquinone-(OD) ₂	DOC ₆ H ₄ OD	98	7	1.0g
ID 1300	Hydroxylamine-d ₃ DCI	ND ₂ OD·DCI	98	7	5.0g
ID 1345	Imidazole-d ₄	C ₃ N ₂ D ₄	99	5	5.0g
ID 1350	Iodobenzene-d ₅	C ₆ D ₅ I	98	7	1.0g
ID 1354	Isobutane-1-d	CH ₃ CH(CH ₃)CH ₂ D	98	2 & 4	1000ml
ID 1355	Isobutane-2-d	CH ₃ CD(CH ₃)CH ₃	98	2 & 4	1000ml
ID 1356	Isobutane-d ₉	CD ₃ CH(CD ₃)CD ₃	98	2 & 4	1000ml
ID 1360	Isopropyl Alcohol-d ₈	CD ₃ CD(CD ₃)OD	98	5	5.0g
ID 1370	Isophthalic-d ₄ Acid	C ₆ D ₄ (COOH) ₂	98	7	5.0g
ID 1465	DL-Leucine-d ₁₀	(CD ₃) ₂ CDCD ₂ CD(NH ₂)COOH	98	7	1.0g
ID 1505	Malonic Acid-d ₄	CD ₂ (COOD) ₂	99	7	50.0g
ID 1507	DL-Methionine-d ₃ (Methyl)	CD ₃ SCH ₂ CH ₂ CH(NH ₂)COOH	98	7	1.0g
ID 1510	*Methane-d ₁	CH ₃ D	99	2 & 4	1000ml
ID 1511	Methane-d ₂	CH ₂ D ₂	98	2 & 4	1000ml
ID 1512	Methane-d ₃	CHD ₃	98	2 & 4	1000ml
ID 1513	*Methane-d ₄	CD ₄ O	99	2 & 4	1000ml
ID 1517	Methyl Acetate-d ₃	CD ₃ COOCH ₃	99	5	5.0g
ID 1520	Methyl-d ₁ Alcohol	CH ₂ DOH	98	5	5.0g
ID 1521	Methyl-d ₂ Alcohol	CHD ₂ OH	98	5	5.0g

ID 1522	*Methyl-d ₃ Alcohol	CD ₃ OH	98	5	5.0g
ID 1524	*Methylamine-d ₃ HCl	CD ₃ NH ₃ Cl	98	7	10.0g
ID 1525	Methyl-d ₃ Bromide	CD ₃ Br	99	2 & 4	10.0g
ID 1526	Methyl-d ₃ Chloride	CD ₃ Cl	99	2 & 4	1000ml
ID 1527	*Methyl-d ₃ Fluoride	CD ₃ F	99	2 & 4	1000ml
ID 1528	*Methyl-d ₃ Iodide	CD ₃ I	99	5	25.0g
ID 1529	Methylene-d ₂ Bromide	CD ₂ Br ₂	98	5	10.0g
ID 1530	Methylene-d ₂ Fluoride	CD ₂ F ₂	98	2 & 4	1000ml
ID 1532	Morpholine-2,2,3,3,5,5,6,6-d ₈		95	5	10.0g
ID 1540	Naphthalene-1-d	C ₁₀ H ₇ D	98	7	5.0g
ID 1541	Naphthalene-2-d	C ₁₀ H ₇ D	98	7	5.0g
ID 1542	Naphthalene-1,4-d ₂	C ₁₀ H ₆ D ₂	98	7	5.0g
ID 1570	Naphthalene-d ₈	C ₁₀ D ₈	99	7	5.0g
ID 1580	Nitromethane-d ₃	CD ₃ NO ₂	98	5	5.0g
ID 1590	4-n-Nonylphenol-ring-d ₄	C ₉ H ₁₉ C ₆ D ₄ OH	98	7	5.0g
ID 1620	Pentacene-d ₁₄		98	7	0.1g
ID 1623	Phenol-d ₆	C ₆ D ₅ OD	98	5	5.0g
ID 1625	Phenylacetic-2,2-d ₂ Acid	C ₆ H ₅ CD ₂ COOH	98	7	5.0g
ID 1627	DL-Phenylalanine-d ₂	C ₆ H ₅ CD ₂ CH(NH ₂)COOH	98	7	1.0g
ID 1628	D-Phenylalanine-d ₇	C ₆ D ₅ CD ₂ CH(NH ₂)COOH	98	7	1.0g
ID 1629	Phenyl Salicylate-d ₁₀	2-(DO)C ₆ D ₄ CO ₂ C ₆ D ₅	98	7	1.0g
ID 9080	Phthaldehyde-d ₆	C ₆ D ₄ (CDO) ₂	98	5	1.0g
ID 1630	Polyethylene-d ₄	(-CD ₂ CD ₂ -) _n	98	7	5.0g
ID 1632	Potassium Deuterioxide (40% solution in D ₂ O)	KOD	99	8	100.0g
ID 1633	Propane-1,1,1,3,3,3-d ₆	CD ₃ CH ₂ CD ₃	99	2 & 4	1000ml
ID 1634	Propane-2,2-d ₂	CH ₃ CD ₂ CH ₃	99	2 & 4	1000ml
ID 1635	Propane-d ₈	CD ₃ CD ₂ CD ₃	99	2 & 4	1000ml
ID 1638	1,3-Propanediol-d ₈	DOCD ₂ CD ₂ CD ₂ OD	98	5	5.0g
ID 9090	1-Propanol-1,1,3,3,3-d ₅	CD ₃ CH ₂ CD ₂ OH	98	5	5.0g
ID 9095	1-Propanol-2,2,3,3,3-d ₅	CD ₃ CD ₂ CH ₂ OH	98	5	5.0g
ID 9100	1-Propanol-2,2-d ₂	CH ₃ CD ₂ CH ₂ OH	98	5	5.0g
ID 9105	Propene-d ₆	CD ₃ CD=CD ₂	99	2 & 4	1000ml
ID 1639	Propionic-2,2-d ₂ Acid	CH ₃ CD ₂ COOH	98	5	5.0g
ID 1640	Propylene-3,3,3-d ₃	CD ₃ CH = CH ₂	98	2 & 4	1000ml
ID 1645	Propylene-d ₆	CD ₃ CD = CD ₂	98	2 & 4	1000ml
ID 1650	Pyrene-d ₁₀	C ₁₆ D ₁₀	98	7	1.0g
ID 1651	Pyrazine-d ₄	C ₄ D ₄ N ₂	98	7	5.0g

ID 1769	DL-Serine-3,3-d ₂	HOCD ₂ CH(NH ₂)COOH	98	7	1.0g
ID 1770	DL-Serine-2,3,3-d ₃	HOCD ₂ CD(NH ₂)COOH	98	7	1.0g
ID 1775	Sodium Acetate-d ₃	CD ₃ COONa	98	7	10.0g
ID 1777	Sodium Borodeuteride	NaBD ₄	98	7	10.0g
ID 1780	Sodium Deuterioxide (40% solution in D ₂ O)	NaOD	99	8	100.0g
ID 1781	Sodium Deuterioxide (Crystals)	NaOD	99	7	20.0g
ID 1784	Stearic Acid-d ₃₅	CD ₃ (CD ₂) ₁₆ COOH	98	7	1.0g
ID 1787	Styrene-d ₁	C ₆ H ₅ CD = CH ₂	98	5	5.0g
ID 1800	Succinic Acids-d ₆	(CD ₂ COOD) ₂	98	7	5.0g
ID 1810	p-Terphenyl-d ₁₄	C ₁₆ D ₁₄	98	7	5.0g
ID 1813	Tetracene-d ₁₂	C ₁₈ D ₁₂	98	7	0.1g
ID 1814	2,2',6,6'-Tetramethylbisphenol A-d ₂₄		98	7	5.0g
ID 1815	Toluene-d ₃	C ₆ H ₅ CD ₃	99	5	5.0g
ID 1816	Trifluoroacetic Acid-d	CF ₃ COOD	98	5	5.0g
ID 1817	Trifluoroethanol-d ₃	CF ₃ CD ₂ OD	98	5	5.0g
ID 1818	Trimethylamine-d ₉	(CD ₃) ₃ N	98	5	5.0g
ID 1819	Triphenylene-d ₁₂	C ₁₈ D ₁₂	98	7	1.0g
ID 1820	Tris(hydroxymethyl)aminomethane-d ₁₁	(DOCD ₂) ₃ CND ₂	98	5	1.0g
ID 1836	L-Tyrosine-ring-2,6-d ₂		98	7	1.0g
ID 1837	L-Tyrosine-ring-3,5-d ₂		98	7	1.0g
ID 1838	L-Tyrosine-ring-d ₄		98	7	1.0g
ID 1839	DL-Tyrosine-d ₇	HOC ₆ D ₄ CD ₂ CD(NH ₂)COOH	98	7	0.5g
ID 1840	L-Tyrosine-d ₇	HOC ₆ D ₄ CD ₂ CD(NH ₂)COOH	98	7	0.25g
ID 1843	*Urea-d ₄	ND ₂ COND ₂	98	7	20.0g
ID 1850	L-Valine-d ₈	(CD ₃) ₂ CDCD(NH ₂)COOH	98	7	1.0g
ID 1860	m-Xylene-d ₁₀	C ₆ D ₄ (CD ₃) ₂	98	5	2.0g
ID 1861	o-Xylene-d ₁₀	C ₆ D ₄ (CD ₃) ₂	98	5	5.0g
ID 1862	p-Xylene-d ₁₀	C ₆ D ₄ (CD ₃) ₂	98	5	5.0g

* These Compounds are also available [multiply-labeled](#).
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Deuterium Solvents

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
ID 2002	*Acetic Acid-d ₄	CD ₃ COOD	99.5	5	5.0g / 10.0g
ID 2005	*Acetone-d ₆	CD ₃ COCD ₃	99.9	5 & 8	5.0g / 50.0g
ID 2008	*Acetonitrile-d ₃	CD ₃ CN	99.7	5 & 8	5.0g / 25.0g
ID 2025	Benzene-d ₆	C ₆ D ₆	99.6	5 & 8	5.0g / 50.0g
ID 2068	*Chloroform-d	CDCl ₃	99.8	8	50.0g / 100.0g
ID 2078	Cyclohexane-d ₁₂	C ₆ D ₁₂	99	5	1.0g / 10.0g
ID 2084	**Deuterium Oxide	D ₂ O	99.8	5 & 9	100.0g / 1000.0g
ID 2090	Diglyme-d ₁₄	(CD ₃ OCD ₂ CD ₂) ₂ O	98	5	5.0g
ID 2094	N,N-Dimethylformamide-d ₇	DCON(CD ₃) ₂	99.5	5	1.0g / 5.0g
ID 2095	*Dimethyl Sulphoxide-d ₆	CD ₃ SOCD ₃	99.9	5 & 8	5.0g / 50.0g
ID 2108	Ethyl Alcohol-d ₆ (Anhydrous)	C ₂ D ₅ OD	99	5	5.0g
ID 2142	Glyme-d ₁₀	CD ₃ OCD ₂ CD ₂ OCD ₃	99	5	5.0g
ID 2265	*Methyl Alcohol-d ₄	CD ₃ OD	99.6	5	10.0g
ID 2270	Methylene Chloride-d ₂	CD ₂ Cl ₂	99.8	5	5.0g
ID 2285	Nitromethane-d ₃	CD ₃ NO ₂	99	5	1.0g
ID 2325	Pyridine-d ₅	C ₅ D ₅ N	99.5	5	5.0g / 10.0g
ID 2405	Tetrahydrofuran-d ₈	C ₄ D ₈ O	99	5	1.0g / 5.0g
ID 2410	Toulene-d ₈	C ₆ D ₅ CD ₃	99.6	5	5.0g
ID 2415	Trifluoroacetic Acid-d	CF ₃ COOD	99	5	25.0g

* These Compounds are also available [multiply-labeled](#).

** Low enriched material available, request price.

WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Labeled Gases & Mixtures

Icon supplies over 30 labeled gases. This range is expanded to more than 80 - considering the labeling combinations. For example, there are seven isotopes of carbon monoxide available with mass numbers ranging from 28 to 31.

Gases are packaged in breakseals at atmospheric pressure, or compressed into cylinders of varying sizes and construction (see packaging specifics).

Icon's capable expertise in stable isotopes and extensive experience with gas mixing technology gives us a unique advantage when supplying your requirements or advising you concerning any special applications you may have in mind.

Acetylene-d₂	Ethylene-d₄
Acetylene-1,2-¹²C₂	Ethylene-1-¹³C
Acetylene-1,2-¹³C₂	Ethylene-1,2-¹³C₂
Acetylene-1,2-¹³C₂,d₂	Helium-³He
Ammonia-d₃	Hydrogen bromide-⁷⁹Br
Ammonia-¹⁵N	Hydrogen bromide-⁸¹Br
Ammonia-¹⁵N,d₃	Hydrogen chloride-³⁵Cl
Bromine gas-⁷⁹Br	Hydrogen chloride-³⁷Cl
Bromine gas-⁸¹Br	Methane-d₁
Carbon dioxide-¹²C	Methane-d₂
Carbon dioxide-¹²C,¹⁷O₂	Methane-d₃
Carbon dioxide-¹²C,¹⁸O₂	Methane-d₄
Carbon dioxide-¹³C	Methane-¹³C
Carbon dioxide-¹³C,¹⁸O₂	Methyl chloride-¹³C
Carbon dioxide-¹⁷O₂	Methyl chloride-³⁵Cl
Carbon dioxide-¹⁸O₂	Methyl chloride-³⁷Cl
Carbon monoxide-¹²C	Methyl fluoride-d₃
Carbon monoxide-¹²C,¹⁷O	Methyl fluoride-¹³C
Carbon monoxide-¹²C,¹⁸O	Methylene fluoride-d₂
Carbon monoxide-¹³C	Methylene fluoride-¹³C
Carbon monoxide-¹³C,¹⁸O	Neon-²⁰Ne

Carbon monoxide-¹⁷O	Neon-²¹Ne
Carbon monoxide-¹⁸O	Neon-²²Ne
Carbonyl chloride-¹³C	Nitric oxide-¹⁵N
Carbonyl sulfide-¹³C	Nitrogen-¹⁵N₁
Carbonyl sulfide-¹³C, ¹⁸O	Nitrogen-¹⁵N₂
Carbonyl sulfide-¹⁸O	Nitrogen dioxide-¹⁵N
Carbonyl sulfide-¹⁷O	Nitrogen-¹⁵N, Oxygen-¹⁸O
Carbonyl sulfide-³⁴S	Nitrogen, Oxygen-¹⁸O
Chlorine-³⁵Cl	Nitrous oxide-¹⁵N₁
Chlorine-³⁷Cl	Nitrous oxide-¹⁵N₂
Deuterium	Nitrous oxide-¹⁸O
Deuterium bromide-d₁ anhydrous	Oxygen-¹⁶O
Deuterium chloride	Oxygen-¹⁷O
Deuterium iodide	Oxygen-¹⁸O
Ethane-1,2-d₂	Phosgene-¹³C
Ethane-d₁	Phosgene-¹⁸O
Ethane-1,1,1-d₃	Phosgene-¹⁷O
Ethane-1,1,2,2-d₄	Propane-d₈
Ethane-d₅	Propylene-3,3,3-d₃
Ethane-d₆	Propylene-d₆
Ethylene-1,2-d₂ (cis)	Sulfur dioxide-¹⁸O
Ethylene-1,2-d₂ (trans)	Sulfur dioxide-³⁴S

ICON ISOTOPES

Lithium 6 & 7 Compounds

(natural abundance 7.42% and 92.58%)

The **lithium 6** compounds listed are also available as the **lithium 7** isotope (99% enriched) whose natural abundance is 92.58% with a nuclear spin of 3/2.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IL 8800	Lithium- ⁶ Li Acetate	CH ₃ COOLi	95	7	
IL 8805	Lithium- ⁶ Li Bromide	LiBr	95	7	
IL 8810	Lithium- ⁶ Li Carbonate	Li ₂ CO ₃	95	7	
IL 8815	Lithium- ⁶ Li Chloride	LiCl	95	7	
IL 8820	Lithium- ⁶ Li Fluoride	LiF	95	7	
IL 8825	Lithium- ⁶ Li Formate	HCOOLi	95	7	
IL 8830	Lithium- ⁶ Li Hydroxide Monohydrate	LiOH · H ₂ O	95	7	
IL 8835	Lithium- ⁶ Li Nitrate	LiNO ₃	95	7	
IL 8840	Lithium- ⁶ Li Perchlorate	LiClO ₄	95	7	
IL 8845	Lithium- ⁶ Li Sulfate	Li ₂ SO ₄	95	7	

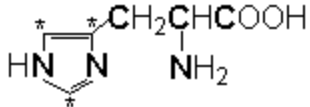
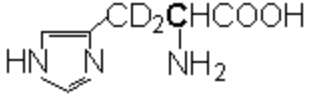
Click [HERE](#) for specific packaging information.
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Multiply-Labeled Compounds

ICON provides the largest range of multiply-labeled compounds available anywhere. If you should have any requirements not covered by our catalogued materials, you need only inquire.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IM6502	Acetic Acid-1,2- ¹² C ₂ ;d ₄	CD ₃ CO ₂ D	99.9:98	5	0.5g
IM6503	Acetic Acid-1- ¹³ C;d ₄	CD ₃ CO ₂ D	99:98	5	0.5g
IM6504	Acetic Acid-2- ¹³ C;d ₄	CD ₃ CO ₂ D	99:98	5	0.5g
IM6505	Acetone-1,3- ¹³ C ₂ ;d ₆	CD ₃ COCD ₃	99:98	5	0.5g
IM6506	Acetone-1,2,3- ¹² C ₃ ;d ₆	CD ₃ COCD ₃	99.9:98	5	0.25g
IM6510	Acetonitrile-1,2- ¹² C;d ₃	CD ₃ CN	99.9:98	5	0.5g
IM6511	Acetonitrile- ¹⁵ N;d ₃	CD ₃ CN	99:98	5	0.5g
IM6512	Acetonitrile-1- ¹³ C;d ₃	CD ₃ CN	99:98	5	0.5g
IM6515	Acetylene-1,2- ¹³ C ₂ ;d ₂	DC = CD	99:98	2 & 4	100ml / 250ml
IM6520	DL-Alanine- ¹⁵ N; ¹⁸ O	CH ₃ CH(NH ₂)CO ₂ H	99:98	7	0.25g
IM6521	L-Alanine-3- ¹³ C;3,3,3-d ₃	CD ₃ CH(NH ₂)COOH	99:98	7	0.5g
IM6522	L-Alanine-1,2,3- ¹³ C ₃ ; ¹⁵ N	CH ₃ CH ₂ (NH ₂)COOH	99:99	7	<i>request price</i>
IM6525	Ammonia- ¹⁵ N;d ₃	ND ₃	99:98	2 & 4	100ml
IM6530	Ammonium Chloride- ¹⁵ N;d ₄	ND ₄ Cl	99:98	7	1.0g
IM6536	Ammonium Sulfate- ¹⁵ N ₂ ;d ₈	(ND ₄) ₂ SO ₄	99:98	7	1.0g
IM6540	Bromoethane-1,2- ¹² C ₂ ;d ₅	CD ₃ CD ₂ Br	99.9:98	5	1.0g
IM6542	3-Bromopropionic Acid-1- ¹³ C;d ₄	BrCD ₂ CD ₂ COOH	99:98	7	1.0g
IM6545	*Carbon Dioxide- ¹² C; ¹⁷ O	CO ₂	99.9:30*	1 & 4	100ml / 250ml
IM6546	Carbon Dioxide- ¹² C; ¹⁸ O	CO ₂	99.9:98	1 & 4	100ml
IM6547	*Carbon Dioxide- ¹³ C; ¹⁷ O	CO ₂	99:35*	1 & 4	<i>request price</i>
IM6548	Carbon Dioxide- ¹³ C; ¹⁸ O	CO ₂	99:98	1 & 4	100ml
IM6550	*Carbon Monoxide- ¹² C; ¹⁷ O	CO	99.9:30*	1 & 4	100ml
IM6551	Carbon Monoxide- ¹² C; ¹⁸ O	CO	99.9:98	1 & 4	100ml
IM6552	Carbon Monoxide- ¹³ C; ¹⁸ O	CO	99:98	1 & 4	100ml / 250ml
IM6553	Creatine-1- ¹⁵ N;d ₃ (N-methyl-d ₃)	H ₂ NC(NH)N(CD ₃)CH ₂ CO ₂ H	99:98	7	1.0g
IM6554	Creatine-2- ¹³ C;2,3- ¹⁵ N ₂	H ₂ NC(NH)N(CD ₃)CH ₂ CO ₂ H	99:99	7	1.0g

IM6555	Cuprous Cyanide- ¹³ C; ¹⁵ N	CuCN	99:99	7	0.5g
IM6560	Cyanamide- ¹³ C; ¹⁵ N ₂	NCNH₂	99:99	7	1.0g
IM6562	L-Cysteine-U- ¹³ C; ¹⁵ N	HSCH₂CH(NH₂)COOH	99:99	7	0.1g
IM6565	Deuterium Oxide- ¹⁷ O;d	D₂O	20:Various	5	1.0g
IM6570	1,2-Dibromoethane-1,2- ¹² C ₂ ;d ₄	BrCD₂CD₂Br	99.9:98	5	1.0g
IM6580	Ethylene-1,2- ¹³ C ₂ ;d ₄ Oxide	CD₂CD₂O	99:98	6	100ml
IM6600	Fluoromethane- ¹³ C;d ₃	CD₃F	99.98	1 & 4	100ml
IM6602	Fmoc-Glycine-2- ¹³ C; ¹⁵ N	Fmoc-NHCH₂CO₂H	99:99	7	1.0g
IM6605	Formamide- ¹³ C; ¹⁵ N	HCONH₂	99:99	5	0.25g
IM6606	Formamidine Acetate- ¹³ C; ¹⁵ N ₂	HC(NH)NH₂·CH₃COOH	99:99	7	1.0g
IM6610	Formic Acid- ¹³ C;OD	HCOOD	99:98	5	0.5g
IM6611	Formic Acid- ¹² C;d	DCOOH	99:98	5	0.5g
IM6614	L-Glutamine-U- ¹³ C ₅ ;U- ¹⁵ N ₂	H₂NCO(CH₂)₂CH(NH₂)CO₂H	99:99	7	0.5g
IM6615	Glycine-1- ¹³ C; ¹⁵ N	NH₂CH₂CO₂H	99:99	7	0.5g
IM6616	Glycine-2- ¹³ C; ¹⁵ N	NH₂CH₂CO₂H	99:99	7	low
IM6617	Glycine-1,2- ¹³ C ₂ ; ¹⁵ N	NH₂CH₂CO₂H	99:99	7	<i>request price</i>
IM6619	Guanidinium Bromide- ¹³ C; ¹⁵ N ₃	H₂NC(NH)NH₂·HBr	99:99	7	1.0g
IM6629	L-Histidine-U- ¹³ C ₆ ; U- ¹⁵ N ₃ ·HCl·H ₂ O		98:98	7	<i>request price</i>
IM6630	DL-Histidine-2- ¹³ C;3,3-d ₂		99:98	7	<i>request price</i>
IM6685	Lithium- ⁶ Li Nitride- ¹⁵ N	⁶Li¹⁵N	96:99	7	0.5g
IM6720	Methane- ¹³ C; d ₁	CH₃D	99:98	1 & 4	100ml
IM6721	Methane- ¹³ C; d ₄	CD₄	99:98	1 & 4	100ml
IM6725	L-Methionine (methy- ¹³ C; d ₃)	CD₃S(CH₂)₂CH(NH₂)CO₂H	99:98	7	1.0g
IM6726	L-Methionine-U- ¹³ C ₆ ; ¹⁵ N	CH₃S(CH₂)₂CH(NH₂)CO₂H	98:98	7	1.0g
IM6730	Methyl Alcohol- ¹³ C; d ₄	CD₃OD	99:98	5	1.0g
IM6731	Methyl Alcohol- ¹⁸ O; d ₃	CD₃OH	98:98	5	<i>request price</i>
IM6735	Methyl-d ₃ Amine- ¹⁵ N·HCl	CD₃NH₂·HCl	98:99	7	0.5g
IM6740	Methyl Iodide- ¹² C; d ₃	CD₃I	99.9:98	7	5.0g
IM6741	Methyl Iodide- ¹³ C; d ₃	CD₃I	99:98	7	2.0g
IM6748	Nitric Oxide- ¹⁵ N; ¹⁸ O	NO	99:60	2 & 3	100ml
IM6775	Paraformaldehyde- ¹³ C; d ₂	(CD₂O)_x	99:98	7	0.5g

IM6780	DL-Phenylalanine-1- ¹³ C; ¹⁵ N	C ₆ H ₅ CH ₂ CH(NH ₂)CO ₂ H	99:99	7	<i>request price</i>
IM6783	Potassium Carbonate- ¹³ C; ¹⁸ O ₃	K ₂ CO ₃	99:98	7	<i>request price</i>
IM6785	Potassium Cyanide- ¹³ C; ¹⁵ N	KCN	99:99	7	0.5g
IM6788	Potassium Nitrate- ¹⁵ N; ¹⁸ O ₃	KNO ₃	99:98	7	<i>request price</i>
IM6790	L-Proline-U- ¹³ C ₆ ; ¹⁵ N	$\begin{array}{c} \text{CH}_2\text{CHCOOH} \\ \quad \\ \text{CH}_2\text{NH} \end{array}$	98 :98	7	<i>request price</i>
IM6830	L-Serine-U- ¹³ C ₃ ; ¹⁵ N	HOCH ₂ CH(NH ₂)COOH	98:98	7	0.5g
IM6845	Sodium Acetate-1- ¹³ C; d ₃	CD ₃ CO ₂ Na	99:98	7	1.0g
IM6846	Sodium Acetate-2- ¹³ C; d ₃	CD ₃ CO ₂ Na	99:98	7	1.0g
IM6850	Sodium Cyanide- ¹³ C; ¹⁵ N	NaCN	99:99	7	0.5g
IM6855	Sodium Nitrate- ¹⁵ N; ¹⁸ O	NaNO ₃	99:98	7	0.5g
IM6856	Sodium Nitrite- ¹⁵ N; ¹⁸ O	NaNO ₂	99:90	7	0.5g
IM6860	Sodium Propionate-1- ¹³ C; ¹⁸ O ₂	CH ₃ CH ₂ COONa	99:98	7	<i>request price</i>
IM6862	Sodium Sulfate- ³⁴ S; ¹⁸ O	Na ₂ SO ₄		7	0.5g
IM6868	Thiourea- ¹³ C; ¹⁵ N ₂	NH ₂ CSNH ₂	99:99	7	0.5g
IM6870	L-Threonine-U- ¹³ C ₄ ; ¹⁵ N	CH ₃ CH(OH)CH(NH ₂)COOH	98:98	7	0.5g
IM6873	2,4,6-Trinitrotoluene-U- ¹³ C ₇ ; U- ¹⁵ N ₃	CH ₃ C ₆ H ₂ (NO ₂) ₃	99:99	7	<i>request price</i>
IM6875	L-Tryptophan-U- ¹³ C ₁₁ ; U- ¹⁵ N ₂	(C ₈ H ₆ N)CH ₂ CH(NH ₂)CO ₂ H	98:98	7	0.5g
IM6878	Urea- ¹² C; d ₄	ND ₂ COND ₂	99.9:98	5	0.5g
IM6879	Urea- ¹³ C; d ₄	ND ₂ COND ₂	99:98	7	0.5g
IM6880	Urea- ¹³ C; ¹⁵ N ₂	NH ₂ CONH ₂	99:99	7	0.5g
IM6881	Urea- ¹³ C; d ₄ ; ¹⁵ N ₂	ND ₂ COND ₂	99:98:99	7	<i>request price</i>
IM6900	L-Valine-1- ¹³ C; ¹⁵ N	(CH ₃) ₂ CHCH(NH ₂)COOH	99:99	7	0.25g

* Click [HERE](#) for specific packaging information.

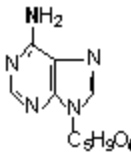
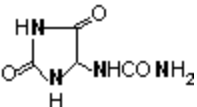
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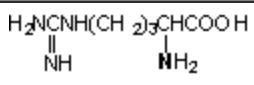
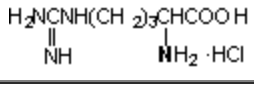
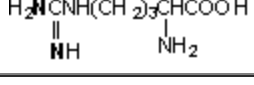
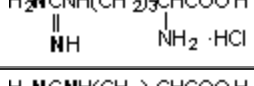
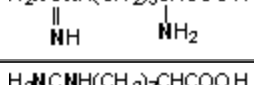
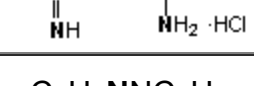
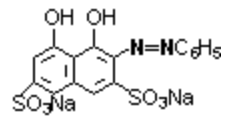
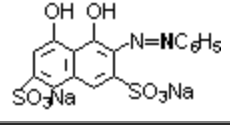
Nitrogen 15 Compounds

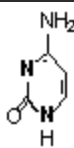
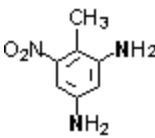
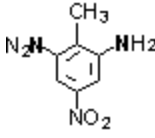
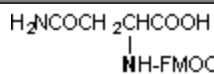
(natural abundance 0.365%)

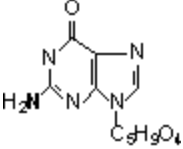
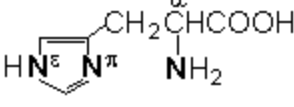
Normally **Nitrogen-15** is produced by separation of the naturally occurring element. Nitric oxide is the material of choice when separating Nitrogen-15. Enrichment is available to 99.9 atom%. **Nitrogen-15** is used in a broad spectrum of research, including the use of simple salts in various agricultural applications to complex amino acids in medical research.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IN 5005	Acetamide- ¹⁵ N	CH ₃ CONH ₂	99	5	1.0g
IN 5007	Acetanilide- ¹⁵ N	C ₆ H ₅ NHCOCH ₃	99	7	1.0g
IN 5009	*Acetonitrile- ¹⁵ N	CH ₃ CN	99	5	0.5g
IN 5010	Acetylcholine Bromide- ¹⁵ N	CH ₃ CO ₂ (CH ₂) ₂ N(CH ₃) ₃ Br	99	7	0.5g
IN 5013	N-Acetylglycine- ¹⁵ N	CH ₃ CONHCH ₂ CO ₂ H	99	7	0.5g
IN 5015	Adenine-U- ¹⁵ N ₅	C ₆ H ₅ N ₅	99	7	<i>request price</i>
IN 5016	Adenosine-amine- ¹⁵ N		99	7	1.0g
IN 5018	*DL-Alanine- ¹⁵ N	CH ₃ CH(NH ₂)CO ₂ H	99	7	1.0g
IN 5019	*L-Alanine- ¹⁵ N	CH ₃ CH(NH ₂)CO ₂ H	99	7	1.0g
IN 5020	Allantoin-U- ¹⁵ N ₄		50	7	1.0g
IN 5022	4-Amino Butyric Acid- ¹⁵ N	H ₂ NCH ₂ CH ₂ CH ₂ COOH	99	7	0.5g
IN 5025	*Ammonia Gas- ¹⁵ N	NH ₃	99	2 & 4	100ml / 250ml / 1000ml
IN 5028	Ammonium Acetate- ¹⁵ N	CH ₃ CO ₂ NH ₄	99	7	1.0g
IN 5030	Ammonium Bromide- ¹⁵ N	NH ₄ Br	99	7	1.0g
IN 5032	Ammonium Carbonate- ¹⁵ N (20% Aqueous)	(NH ₄) ₂ CO ₃	99	7	<i>request price</i>

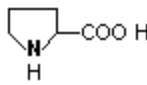

IN 5035	Ammonium Chloride- ¹⁵ N	NH₄Cl	5	9	50g / 250g
IN 5036	Ammonium Chloride- ¹⁵ N	NH₄Cl	65	7	1.0g
IN 5037	*Ammonium Chloride- ¹⁵ N	NH₄Cl	99	7	1.0g
IN 5040	Ammonium Dihydrogen Phosphate- ¹⁵ N	NH₄H₂PO₄	99	7	1.0g
IN 5045	Ammonium Hydroxide- ¹⁵ N (20% Aqueous)	NH₄OH	99	8	5.0g
IN 5048	Ammonium- ¹⁵ N Nitrate	NH₄NO₃	5	9	50g / 500g
IN 5049	Ammonium- ¹⁵ N Nitrate	NH₄NO₃	65	7	1g
IN 5050	Ammonium- ¹⁵ N Nitrate	NH₄NO₃	99	7	1.0g
IN 5055	Ammonium Nitrate ¹⁵ N	NH₄NO₃	5	9	50g / 500g
IN 5056	Ammonium Nitrate ¹⁵ N	NH₄NO₃	65	7	1.0g
IN 5057	Ammonium Nitrate ¹⁵ N	NH₄NO₃	99	7	1.0g
IN 5060	Ammonium- ¹⁵ N Nitrate- ¹⁵ N	NH₄NO₃	5	9	50g / 250g
IN 5061	Ammonium- ¹⁵ N Nitrate- ¹⁵ N	NH₄NO₃	65	7	1.0g
IN 5062	Ammonium- ¹⁵ N Nitrate- ¹⁵ N	NH₄NO₃	99	7	1.0g
IN 5065	Ammonium Perchlorate- ¹⁵ N	NH₄ClO₄	99	7	1.0g
IN 5068	Ammonium Phosphate Dibasic- ¹⁵ N	(NH₄)₂HPO₄	5	9	100g
IN 5069	Ammonium Phosphate Monobasic- ¹⁵ N	NH₄H₂PO₄	5	9	100g
IN 5072	Ammonium Sulfate- ¹⁵ N	(NH₄)₂SO₄	5	9	50g / 250g
IN 5073	Ammonium Sulfate- ¹⁵ N	(NH₄)₂SO₄	65	7	1.0g
IN 5074	*Ammonium Sulfate- ¹⁵ N	(NH₄)₂SO₄	99	7	1.0g
IN 5075	*Aniline- ¹⁵ N	C₆H₅NH₂	99	5	1.0g
IN 5080	Anthranilic Acid- ¹⁵ N	NH₂C₆H₄COOH	99	7	1.0g
IN 5090	L-Asparagine- ¹⁵ N (Amide)	H₂NCOCH₂CH(NH₂)COOH	99	7	0.5g

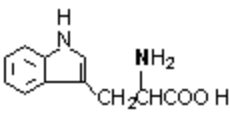
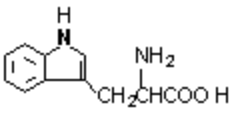
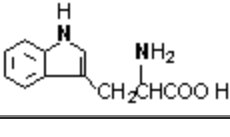
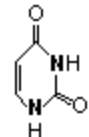
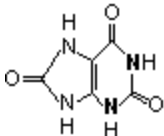
IN 5091	L-Asparagine- ¹⁵ N (Amine)	H ₂ NCOCH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IN 5095	DL-Aspartic Acid- ¹⁵ N	HO ₂ CCH ₂ CH(NH ₂)CO ₂ H	99	7	0.5g
IN 5096	L-Aspartic Acid- ¹⁵ N	HO ₂ CCH ₂ CH(NH ₂)CO ₂ H	99	7	0.25g
IN 9550	L-Arginine-α- ¹⁵ N		99	7	1.0g
IN 9551	L-Arginine-α- ¹⁵ N·HCl		99	7	1.0g
IN 9554	L-Arginine-guanidino- ¹⁵ N		99	7	1.0g
IN 9555	L-Arginine-guanidino- ¹⁵ N·HCl		99	7	1.0g
IN 9559	L-Arginine-U- ¹⁵ N		99	7	1.0g
IN 9560	L-Arginine-U- ¹⁵ N·HCl		99	7	1.0g
IN 5098	Azobenzene- ¹⁵ N ₁	C ₆ H ₅ NNC ₆ H ₅	99	5	1.0g
IN 5100	Benzamide- ¹⁵ N	C ₆ H ₅ CONH ₂	99	7	1.0g
IN 5105	Benzanilide- ¹⁵ N	C ₆ H ₅ CONHC ₆ H ₅	99	7	0.5g
IN 5110	2-Bromoethylamine- ¹⁵ N·HBr	BrCH ₂ CH ₂ NH ₂ ·HBr	99	7	1.0g
IN 5115	n-Butylamine- ¹⁵ N	C ₄ H ₉ NH ₂	99	5	1.0g
IN 5116	n-Butylamine- ¹⁵ N·HCl	C ₄ H ₉ NH ₂ ·HCl	99	7	1.0g
IN 5120	Calcium Nitrate Tetrahydrate- ¹⁵ N	Ca(NO ₃) ₂ ·4H ₂ O	5	7 & 9	50g / 250G
IN 5121	Calcium Nitrate Tetrahydrate- ¹⁵ N	Ca(NO ₃) ₂ ·4H ₂ O	65	7	1.0g
IN 5122	Calcium Nitrate Tetrahydrate- ¹⁵ N	Ca(NO ₃) ₂ ·4H ₂ O	99	7	1.0g
IN 5125	Choline-Chloride- ¹⁵ N	HOCH ₂ CH ₂ N(CH ₃) ₃ Cl	99	7	1.0g
IN 5127	Chromotrope 2R-U- ¹⁵ N ₂		99	7	1.0g
IN 5128	Chromotrope 2R-aniline- ¹⁵ N		99	7	1.0g
IN 5130	Creatine-1- ¹⁵ N	H ₂ NC(NH)N(CH ₃)CH ₂ COOH	99	7	1.0g
IN 5134	Creatine-U- ¹⁵ N ₃	H ₂ NC(NH)N(CH ₃)CH ₂ COOH	99	7	0.5g
IN	Cupric Nitrate- ¹⁵ N	Cu(NO ₃) ₂	99	7	1.0g

5135					
IN 5136	*Cyanamide-U- ¹⁵ N ₂	NCNH₂	99	7	0.5g
IN 5137	Cyanamide- ¹⁵ N (Amine)	NCNH₂	99	7	0.5g
IN 5138	Cyanamide- ¹⁵ N (Cyanide)	NCNH₂	99	7	0.5g
IN 9590	L-Cysteine- ¹⁵ N	HSCH₂CH(NH₂)COOH	99	7	1.0g
IN 9595	L-Cystine- ¹⁵ N	-[SCH₂CH(NH₂)COOH]₂	99	7	1.0g
IN 9600	DL-Cystine- ¹⁵ N	-[SCH₂CH(NH₂)COOH]₂	99	7	1.0g
IN 9610	Cytosine-1,3- ¹⁵ N ₂		99	7	1.0g
IN 9630	2,4-Diamino- ¹⁵ N ₂ ,6-nitrotoluene		99	7	1.0g
IN 9635	2,6-Diamino- ¹⁵ N ₂ ,4-nitrotoluene		99	7	1.0g
IN 5140	Diammonium Hydrogen Phosphate- ¹⁵ N	(NH₄)₂HPO₄	5	9	50g
IN 5141	Diammonium Hydrogen Phosphate- ¹⁵ N	(NH₄)₂HPO₄	99	7	1.0g
IN 5142	Dimethylamine- ¹⁵ N·HCl	(CH₃)₂NH·HCl	99	7	0.5g
IN 5143	Dimethylamine- ¹⁵ N	(CH₃)₂NH	99	3 & 4	0.5g
IN 5148	N-N-Dimethylformamide- ¹⁵ N	HCON(CH₃)₂	99	5	0.5g
IN 5149	Ethanolamine- ¹⁵ N·HCl	HOCH₂CH₂NH₂·HCl	99		
IN 5150	Ethylamine- ¹⁵ N·HCl	CH₃CH₂NH₂·HCl	99	7	0.5g
IN 5155	Ethylenediamine- ¹⁵ N ₂ ·HCl	(CH₂NH₂)₂·2HCl	99	7	0.5g
IN 5190	*Formamide- ¹⁵ N	HCONH₂	99	5	1.0g
IN 5195	Fmoc-L-Asparagine-α- ¹⁵ N		99	7	1.0g
IN 5225	DL-Glutamic Acid- ¹⁵ N	HOOCCH₂CH₂CH(NH₂)COOH	99	7	1.0g

IN 5226	L-Glutamic Acid- ¹⁵ N	HOOCCH ₂ CH ₂ CH(NH ₂)COOH	99	7	100g
IN 5230	L-Glutamine- ¹⁵ N (Amide)	H ₂ NCOCH ₂ CH ₂ CH(NH ₂)COOH	99	7	1.0g
IN 5231	L-Glutamine- ¹⁵ N (Amine)	H ₂ NCOCH ₂ CH ₂ CH(NH ₂)COOH	99	7	1.0g
IN 5235	*Glycine- ¹⁵ N	H ₂ NCH ₂ COOH	99	7	1.0g
IN 5240	Glycine- ¹⁵ N Ethyl Ester·HCl	NH ₂ CH ₂ CO ₂ C ₂ H ₅ ·HCl	99	7	1.0g
IN 5245	Guanosine-amine- ¹⁵ N		99	7	1.0g
IN 5260	L-Histidine-α- ¹⁵ N		99	7	1.0g
IN 5261	DL-Histidine-α- ¹⁵ N		99	7	1.0g
IN 5262	L-Histidine-ε- ¹⁵ N		99	7	1.0g
IN 5263	L-Histidine (U-Ring) ¹⁵ N ₂		99	7	1.0g
IN 5264	L-Histidine (U-Ring) ¹⁵ N ₂ ·HCl		99	7	1.0g
IN 5265	DL-Histidine (U-Ring) ¹⁵ N ₂		99	7	0.25g
IN 5266	L-Histidine-π- ¹⁵ N		99	7	0.5g
IN 5270	Hydrazine Sulfate- ¹⁵ N	N ₂ H ₄ ·H ₂ SO ₄	99	7	0.5g / 1.0g
IN 5280	Hydroxylamine·HCl- ¹⁵ N	NH ₂ OH·HCl	99	7	0.25g / 0.5g
IN 5290	DL-4-Hydroxyphenylalanine- ¹⁵ N (Tyrosine)	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	0.5g
IN 5292	L-4-Hydroxyphenylalanine- ¹⁵ N (Tyrosine)	HOC ₆ H ₄ CH ₂ CH(NH ₂)COOH	99	7	0.1g
IN 5300	Imidazole-U- ¹⁵ N ₂ (Free Base)	C ₃ H ₄ N ₂	99	5	0.25g
IN 5410	DL-Isoleucine- ¹⁵ N	C ₂ H ₅ CH(CH ₃)CH(NH ₂)COOH	99	7	0.5g
IN 5411	L-Isoleucine- ¹⁵ N	C ₂ H ₅ CH(CH ₃)CH(NH ₂)COOH	99	7	100mg
IN 5420	DL-Leucine- ¹⁵ N	(CH ₃) ₂ CHCH ₂ CH(NH ₂)COOH	99	7	1.0g
IN 5421	L-Leucine- ¹⁵ N	(CH ₃) ₂ CHCH ₂ CH(NH ₂)COOH	99	7	1.0g
IN 5440	DL-Lysine-α- ¹⁵ N·HCl	HCl·NH ₂ (CH ₂) ₄ CH(NH ₂)COOH	99	7	0.5g

IN 5441	L-Lysine- α - $^{15}\text{N}\cdot\text{HCl}$	$\text{HCl}\cdot\text{NH}_2(\text{CH}_2)_4\text{CH}(\text{NH}_2)\text{COOH}$	99	7	1.0g
IN 5442	L-Lysine- ϵ - $^{15}\text{N}\cdot\text{HCl}$	$\text{HCl}\cdot\text{NH}_2(\text{CH}_2)_4\text{CH}(\text{NH}_2)\text{COOH}$	99	7	0.25g
IN 5443	L-Lysine-U- $^{15}\text{N}_2\cdot\text{HCl}$	$\text{HCl}\cdot\text{H}_2\text{N}(\text{CH}_2)_4\text{CH}(\text{NH}_2)\text{COOH}$	99	7	<i>request price</i>
IN 5450	Melamine-U- $^{15}\text{N}_6$	$\text{C}_3\text{N}_6\text{H}_6$	99	7	0.1g / 0.5g
IN 5451	Melamine- $^{15}\text{N}_3$ (Ring Labeled) (Side Chain Label Also Available)	$\text{C}_3\text{N}_3\text{N}_3\text{H}_6$	99	7	0.25g
IN 5460	DL-Methionine- ^{15}N	$\text{CH}_3\text{S}(\text{CH}_2)_2\text{CH}(\text{NH}_2)\text{COOH}$	99	7	0.5g
IN 5461	L-Methionine- ^{15}N	$\text{CH}_3\text{S}(\text{CH}_2)_2\text{CH}(\text{NH}_2)\text{COOH}$	99	7	0.5g
IN 5480	*Methylamine- $^{15}\text{N}\cdot\text{HCl}$	$\text{CH}_3\text{NH}_2\cdot\text{HCl}$	99	7	0.5g / 1.0g
IN 5481	*Methylamine- ^{15}N (gas)	CH_3NH_2	99	2 & 4	100ml / 250ml / 1000ml
IN 5485	Nitric Acid- ^{15}N (approx. 50% Aqueous)	HNO_3	5	8	100g Contained Acid
IN 5486	Nitric Acid- ^{15}N (approx. 50% Aqueous)	HNO_3	99	8	1.0g Contained Acid
IN 5490	*Nitric Oxide- ^{15}N	NO	99	2 & 3	250ml / 1000g
IN 5495	Nitrobenzene- ^{15}N	$\text{C}_6\text{H}_5\text{NO}_2$	99	5	1.0g
IN 5500	Nitrogen Gas- ^{15}N (Single Label)	$\text{N} = \text{N}$	99	1 & 4	500ml / 1000ml
IN 5501	Nitrogen Gas- ^{15}N	N_2	99	1 & 4	100ml / 250ml / 1000ml
IN 5505	Nitroglycerine- $^{15}\text{N}_3$ (2% Soln. in Chloroform)	$\text{CHONO}_2(\text{CH}_2\text{ONO}_2)_2$	99	8	0.5g (contained)
IN 5507	Nitrogen Dioxide- ^{15}N	NO_2	99	2	500ml / 1000ml
IN 5510	Nitromethane- ^{15}N	CH_3NO_2	99	5	0.5g
IN 5514	Nitrous Oxide- ^{15}N (Single Label)	NNO or NNO	99	2 & 4	100ml / 250ml
IN 5515	Nitrous Oxide- $^{15}\text{N}_2$	N_2O	99	2 & 4	100ml / 250ml
IN 5520	*DL-Phenylalanine- ^{15}N	$\text{C}_6\text{H}_5\text{CH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$	99	7	1.0g
IN 5521	L-Phenylalanine- ^{15}N	$\text{C}_6\text{H}_5\text{CH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$	99	7	1.0g
IN 5525	Phthalimide- ^{15}N	$\text{C}_6\text{H}_4(\text{CO})_2\text{NH}$	99	7	2.0g

IN 5530	Potassium Azide- ¹⁵ N (Terminally Labeled)	KNN ₂	99	7	0.5g
IN 5531	Potassium Azide- ¹⁵ N ₃	KN ₃	99	7	<i>request price</i>
IN 5540	*Potassium Cyanide- ¹⁵ N	KCN	99	7	0.5g / 1.0g
IN 5545	Potassium Nitrate- ¹⁵ N	KNO ₃	5	9	50g / 100g
IN 5546	Potassium Nitrate- ¹⁵ N	KNO ₃	65	7	1.0g
IN 5547	*Potassium Nitrate- ¹⁵ N	KNO ₃	99	7	1.0g / 2.0g
IN 5550	Potassium Nitrite- ¹⁵ N	KNO ₂	99	7	1.0g
IN 5555	Potassium Phthalimide- ¹⁵ N	C ₆ H ₄ (CO) ₂ NK	99	7	1.0g
IN 5560	Potassium Thiocyanate- ¹⁵ N	KCNS	99	7	0.5g
IN 5565	L-Proline- ¹⁵ N		99	7	<i>request price</i>
IN 5570	Pyridine- ¹⁵ N	C ₅ H ₅ N	99	5	0.5g
IN 5590	Pyrrole- ¹⁵ N		99	5	0.5g
IN 5705	Sarcosine- ¹⁵ N·HCl	CH ₃ NHCH ₂ COOH·HCl	99	7	1.0g
IN 5710	DL-Serine- ¹⁵ N	HOCH ₂ CH(NH ₂)COOH	99	7	0.5g
IN 5711	L-Serine- ¹⁵ N	HOCH ₂ CH(NH ₂)COOH	99	7	<i>request price</i>
IN 5720	Silicon Nitride- ¹⁵ N	Si ₃ N ₄	99	7	<i>request price</i>
IN 5722	Silver Nitrate- ¹⁵ N	AgNO ₃	99	7	1.0g
IN 5725	Sodium Azide- ¹⁵ N (Terminally Labeled)	NaN ₃	99	7	1.0g
IN 5726	Sodium Azide- ¹⁵ N ₃	Na ₃ N ₃	99	7	<i>request price</i>
IN 5730	*Sodium Cyanide- ¹⁵ N	NaCN	99	7	0.5g
IN 5735	Sodium Nitrate- ¹⁵ N	NaNO ₃	5	9	50g / 250G
IN 5736	*Sodium Nitrate- ¹⁵ N	NaNO ₃	99	7	1.0g
IN 5737	Sodium Nitrite- ¹⁵ N	NaNO ₂	99	7	0.5g

IN 5738	Sodium Thiocyanate- ¹⁵ N	NaSCN	99	7	0.5g / 1.0g
IN 5740	Succinimide- ¹⁵ N	C ₄ H ₅ NO ₂	99	7	1.0g
IN 5745	Thiourea- ¹⁵ N ₂	NH ₂ CSNH ₂	99	7	0.5g
IN 5750	L-Threonine- ¹⁵ N	CH ₃ CH(OH)CH(NH ₂)CO ₂ H	99	7	1.0g
IN 5751	DL-Threonine- ¹⁵ N	CH ₃ CH(OH)CH(NH ₂)CO ₂ H	99	7	1.0g
IN 5769	Trimethylamine- ¹⁵ N	(CH ₃) ₃ N	99	2 & 4	<i>request price</i>
IN 5770	Trimethylamine- ¹⁵ N·HCl	(CH ₃) ₃ N·HCl	99	7	1.0g
IN 5772	Trinitrotoluene-U- ¹⁵ N ₃	CH ₃ C ₆ H ₂ (NO ₂) ₃	99	7	1.0g
IN 5775	L-Tryptophan-α- ¹⁵ N		99	7	<i>request price</i>
IN 5776	DL-Tryptophan-α- ¹⁵ N		99	7	1.0g
IN 5777	L-Tryptophan-indole- ¹⁵ N		99	7	1.0g
IN 5778	DL-Tryptophan-indole- ¹⁵ N		99	7	1.0g
IN 5779	L-Tryptophan-U- ¹⁵ N ₂		99	7	1.0g
IN 5290	DL-Tyrosine- ¹⁵ N	HOC ₆ H ₄ CH ₂ CH(NH ₂)CO ₂ H	99	7	0.5
IN 5292	L-Tyrosine- ¹⁵ N		99	7	0.1
IN 5780	Uracil-U- ¹⁵ N ₂		99	7	0.5g
IN 5790	Urea- ¹⁵ N ₂	NH ₂ CONH ₂	5	7 & 9	10g / 100g
IN 5791	Urea- ¹⁵ N ₂	NH ₂ CONH ₂	65	7	1.0g
IN 5792	*Urea- ¹⁵ N ₂	NH ₂ CONH ₂	99	7	0.5g / 1.0g
IN 5810	Uric Acid-1,3- ¹⁵ N ₂		99	7	0.5g
IN 5830	DL-Valine- ¹⁵ N	(CH ₃) ₂ CHCH(NH ₂)CO ₂ H	99	7	0.5g

IN 5831	*L-Valine- ¹⁵ N	(CH ₃) ₂ CHCH(NH ₂)CO ₂ H	99	7	0.5g
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* These Compounds are also available [multiply-labeled](#).
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Noble Gas Isotopes

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
Helium-3 (natural abundance 1.3x10⁻⁴)					
Research quantities supplied in high vacuum breakseals					
IR 8000	Helium-3	³ He	99.9	4	1000ml
IR 8025	Helium-3	³ He	99.9995	4	1000ml
Research quantities supplied in cylinders to client specifications					
IR 8050	Helium-3	³ He	99.9	1 & 3	<i>per liter</i>
IR 8075	Helium-3	³ He	99.9995	1 & 3	<i>per liter</i>
<p>Helium-3 can be supplied in customer cylinder, but due to leak testing and cleaning procedures, an \$85 service charge is imposed. Icon can provide a wide range of stainless steel, carbon steel, and specialty steel cylinders and valves to meet the customer's pressure, size, and flow requirements.</p> <p>BULK QUANTITIES: Icon is capable of supplying your bulk requirements. Delivery can be as-required and is subject to a specific call-off rate where required. Please contact our sales office for a specific quotation.</p> <p>FOREIGN ORDERS: Exportation of Helium-3 requires an Export License, issued by the U.S. Department of Commerce. Icon is experienced in the requirements for these licenses and will gladly advise prospective clients.</p>					
Argon					
IR 8101	Argon-36 (0.337%)	³⁶ Ar	99.5	3	100ml
IR 8150	Argon-38 (0.063%)	³⁸ Ar	95	3	10ml
IR 8175	Argon-40 (99.6%)	⁴⁰ Ar	99.95	1 & 3	25 Liter
Neon					
IR 8201	Neon-20 (90.92%)	²⁰ Ne	99.95	1 & 3	1000ml
IR 8250	Neon-21 (0.26%)	²¹ Ne	90	3	10ml
IR 8275	Neon-22 (8.82%)	²² Ne	99.9	1 & 3	1000ml
Krypton					
IR 8301	*Krypton-78 (0.354%)	⁷⁸ Kr	8	3	100ml
IR 8310	Krypton-78 (0.354%)	⁷⁸ Kr	99	3	10ml
IR 8320	*Krypton-80 (2.27%)	⁸⁰ Kr	90	3	10ml
IR 8330	*Krypton-82 (11.56%)	⁸² Kr	40	3	100ml
IR 8340	Krypton-82 (11.56%)	⁸² Kr	90	3	10ml
IR 8350	Krypton-83 (11.55%)	⁸³ Kr	70	3	10ml

IR 8360	Krypton-84 (56.90%)	^{84}Kr	90	3	100ml
IR 8370	Krypton-86 (17.37%)	^{86}Kr	99	3	100ml
Xenon					
IR 8401	*Xenon-124 (0.096%)	^{124}Xe	1	3	100ml
IR 8410	Xenon-124 (0.096%)	^{124}Xe	50	3	10ml
IR 8420	Xenon-126 (0.090%)	^{126}Xe	2	3	10ml
IR 8430	*Xenon-129 (26.44%)	^{129}Xe	80	3	100ml
IR 8440	Xenon-131 (21.18%)	^{131}Xe	80	3	10ml
IR 8450	Xenon-134 (10.44%)	^{134}Xe	50	3	10ml
IR 8460	*Xenon-136 (8.87%)	^{136}Xe	99	3	10ml
* Other enrichments are also available <i>please inquire</i> .					
Helium-Neon Laser Gas Mixtures					
<p>Icon specializes in preparing stable laser mixtures with Helium-3/Neon components. Full analysis of each mixture ensures the isotopic ratios and chemical analysis. Mixtures are specifically quoted.</p>					
Reference Standards					
<p>Icon can supply any of its materials listed previously, in precision sample tubes as specified or as supplied by the client. Please contact us to discuss your requirements.</p>					
WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED					

ICON ISOTOPES

Oxygen 16 Compounds

(natural abundance 99.759)

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IO 6050	Oxygen Gas- ¹⁶ O ₂	O ₂	99.98	1 & 4	1000ml
IO 6060	Water- ¹⁶ O	H ₂ O	99.98	7	10g

WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Oxygen 17 Compounds

(natural abundance 0.037%)

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IO 6101	Acetaldehyde- ¹⁷ O	CH ₃ CHO	40	6	1.0g
IO 6103	Adipic Acid- ¹⁷ O ₄	HOO(CH ₂) ₄ COOH	40	7	1.0g
IO 6105	Ammonium Nitrate- ¹⁷ O ₃	NH ₄ NO ₃	20	7	1.0g
IO 6108	Benzophenone- ¹⁷ O	C ₆ H ₅ CO C ₆ H ₅	20	5	1.0g
IO 6118	*Carbon Dioxide- ¹⁷ O ₂	CO ₂	30	1 & 4	100ml / 250ml
IO 6119	Carbon Dioxide- ¹⁷ O ₂	CO ₂	50	1 & 4	100ml / 250ml
IO 6120	**Carbon Dioxide- ¹⁷ O ₂	CO ₂	**60	1 & 4	100ml
IO 6125	*Carbon Monoxide- ¹⁷ O	CO	30	1 & 4	100ml / 250ml
IO 6126	**Carbon Monoxide- ¹⁷ O	CO	**50	1 & 4	100ml / 250ml
IO 6130	Carbonyl Sulfide- ¹⁷ O	COS	40	2	500ml
IO 6132	Cyclopentanone- ¹⁷ O	C ₅ H ₈ O	40	5	<i>request price</i>
IO 6135	Deuterium Oxide- ¹⁷ O	D ₂ O	20	5	1.0g
IO 6140	Dimethyl Formamide- ¹⁷ O	HCON(CH ₃) ₂	40	5	1.0g
IO 6142	Ethanol- ¹⁷ O	CH ₃ CH ₂ OH	40	5	1.0g
IO 6150	Formic Acid- ¹⁷ O	HCOOH	10/15	5	1.0g
IO 6170	Nitrous Oxide- ¹⁷ O	N ₂ O	**22	1 & 4	250ml / 1000ml
IO 6185	Oxygen Gas- ¹⁷ O ₂	O ₂	20	1 & 4	250ml / 1000ml
IO 6186	Oxygen Gas- ¹⁷ O ₂	O ₂	30	1 & 4	100ml / 250ml
IO 6187	**Oxygen Gas- ¹⁷ O ₂	O ₂	**50	1 & 4	100ml / 250ml
IO 6195	Phosgene- ¹⁷ O	COCl ₂	40	2 & 3	500ml
IO 6215	Silicon Dioxide- ¹⁷ O ₂	SiO ₂	45	7	0.25g
IO 6225	Urea- ¹⁷ O	NH ₂ CONH ₂	40	7	1.0g
IO 6235	Valine- ¹⁷ O ₂	(CH ₃) ₂ CHCH(NH ₂)COOH	40	7	<i>request price</i>
IO 6240	Water- ¹⁷ O (Normalized)	H ₂ O	10	7	1.0g
IO 6241	Water- ¹⁷ O (Normalized)	H ₂ O	20	7	1.0g
IO 6242	Water- ¹⁷ O (Normalized)	H ₂ O	30	7	0.5g / 1.0g
IO 6243	Water- ¹⁷ O (Normalized)	H ₂ O	50	7	0.5g / 1.0g

IO 6244	**Water- ¹⁷ O (<i>Normalized</i>)	H ₂ O	**60	7	0.25g / 0.5g
<p>* These Compounds are also available multiply-labeled. ** Higher Enrichments can be produced - please inquire. WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED</p>					

ICON ISOTOPES

Oxygen 18 Compounds

(natural abundance 0.204%)

Normally **Oxygen-18** is normally produced by separation of the naturally occurring element. Nitric oxide is usually the material of choice when isolating Oxygen-18. We offer a wide range of compounds labeled with Oxygen-18, along with the basic water and gas forms as well.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IO 6255	Acetaldehyde- ¹⁸ O	CH ₃ CHO	90	6	1.0g
IO 6257	Acetic Acid- ¹⁸ O ₂	CH ₃ COOH	90	5	0.5g
IO 6259	Adipic Acid- ¹⁸ O ₄	HOOC(CH ₂) ₄ COOH	90	7	1.0g
IO 6260	Ammonium Nitrate- ¹⁸ O ₃	NH ₄ NO ₃	50	7	1.0g
IO 6262	Barium Carbonate- ¹⁸ O ₃	BaCO ₃	90	7	1.0g
IO 6266	Benzoic Acid- ¹⁸ O ₂	C ₆ H ₅ COOH	95	7	0.5g
IO 6268	Benzophenone- ¹⁸ O	C ₆ H ₅ CO C ₆ H ₅	90	5	1.0g
IO 6272	Cadmium Oxide- ¹⁸ O	CdO	90	7	1.0g
IO 6275	Calcium Carbonate- ¹⁸ O ₃	CaCO ₃	90	7	1.0g
IO 6280	Carbon Dioxide- ¹⁸ O ₂	CO ₂	20	1 & 4	250ml / 1000ml
IO 6281	Carbon Dioxide- ¹⁸ O ₂	CO ₂	50	1 & 4	250ml / 1000ml
IO 6282	* Carbon Dioxide- ¹⁸ O ₂	CO ₂	99	1 & 4	100ml / 250ml
IO 6285	Carbon Monoxide- ¹⁸ O	CO	20	1 & 4	250ml / 1000ml
IO 6286	Carbon Monoxide- ¹⁸ O	CO	50	1 & 4	250ml / 1000ml
IO 6287	* Carbon Monoxide- ¹⁸ O	CO	99	1 & 4	100ml / 250ml
IO 6290	Carbonyl Sulfide- ¹⁸ O	COS	90	2	500ml
IO 6295	Cyclopentanone- ¹⁸ O	C ₅ H ₈ O	90	5	<i>by request</i>
IO 6300	Dimethylformamide- ¹⁸ O	HCON(CH ₃) ₂	90	5	1.0g
IO 6310	Ethanol- ¹⁸ O	C ₂ H ₅ OH	97	5	0.5g
IO 6315	Glycine- ¹⁸ O ₂	NH ₂ CH ₂ CO ₂ H	90	7	0.5g
IO 6325	Hydrogen Peroxide- ¹⁸ O ₂ (0.2% soln)	H ₂ O ₂	90	5	1.0g
IO 6365	Lead Monoxide- ¹⁸ O	PbO	95	7	0.5g
IO 6370	DL-Leucine- ¹⁸ O ₂	(CH ₃) ₂ CHCH ₂ CH(NH ₂)CO ₂ H	97	7	0.25g

IO 6372	Manganese Carbonate- ¹⁸ O ₃	MnCO ₃	90	7	1.0g
IO 6375	Mercuric Oxide- ¹⁸ O	HgO	90	7	1.0g
IO 6380	* Methyl Alcohol- ¹⁸ O	CH ₃ OH	95	5	0.5g
IO 6383	* Nitric Acid- ¹⁸ O ₃	HNO ₃	60:95	5	<i>by request</i>
IO 6384	Nitric Oxide- ¹⁸ O	NO	60:95	2 & 3	<i>by request</i>
IO 6385	Nitrous Oxide- ¹⁸ O	N ₂ O	**74	1 & 4	100ml
IO 6388	Nitrogen Dioxide- ¹⁸ O ₂	NO ₂	50	2 & 3	500ml
IO 6391	Oxygen Gas- ¹⁸ O ₂	O ₂	20	1 & 4	250ml / 1000ml
IO 6392	Oxygen Gas- ¹⁸ O ₂	O ₂	50	1 & 4	250ml / 1000ml
IO 6393	Oxygen Gas- ¹⁸ O ₂	O ₂	99	1 & 4	100ml / 250ml
IO 6401	Paraformaldehyde- ¹⁸ O	(CH ₂ O) _x	90	7	1.0g
IO 6402	Phenol- ¹⁸ O	C ₆ H ₅ OH	90	7	0.25g
IO 6403	Phosgene- ¹⁸ O	COCl ₂	90	2 & 3	500ml
IO 6405	* Potassium Carbonate- ¹⁸ O ₃	K ₂ CO ₃	90	7	0.5g
IO 6408	* Potassium Nitrate- ¹⁸ O ₃	KNO ₃	90	7	0.5g
IO 6410	Potassium Nitrite- ¹⁸ O ₂	KNO ₂	90	7	<i>by request</i>
IO 6445	Silicon Dioxide- ¹⁸ O ₂	SiO ₂	90	7	0.2g
IO 6448	Sodium Acetate- ¹⁸ O ₂	CH ₃ COONa	95	7	0.5g
IO 6450	Sodium Carbonate- ¹⁸ O ₃	Na ₂ CO ₃	90	7	0.5g
IO 6452	* Sodium Nitrate- ¹⁸ O ₃	NaNO ₃	97	7	0.5g
IO 6453	Sodium Nitrite- ¹⁸ O ₂	NaNO ₂	90	7	<i>by request</i>
IO 6455	Sodium Perchlorate- ¹⁸ O ₄	NaClO ₄	95	7	0.5g
IO 6460	Sodium Sulfate- ¹⁸ O ₄	NaSO ₄	97	7	0.5g
IO 6465	Sulfur Dioxide- ¹⁸ O ₂	SO ₂	97	1 & 4	100ml
IO 6470	Sulfuric Acid-(85/90%)- ¹⁸ O ₄	H ₂ SO ₄	97	5	<i>by request</i>
IO 6475	Urea- ¹⁸ O	NH ₂ CONH ₂	90	7	1.0g
IO 6480	Valine- ¹⁸ O ₂	(CH ₃) ₂ CHCH(NH ₂)COOH	90	7	<i>by request</i>
IO 6485	Water- ¹⁸ O (<i>Normalized</i>)	H ₂ O	1.5	8	100g
IO 6486	Water- ¹⁸ O (<i>Normalized</i>)	H ₂ O	10	8	5.0g / 25g
IO 6487	Water- ¹⁸ O (<i>Normalized</i>)	H ₂ O	20	8	1.0g / 5.0g
IO 6488	Water- ¹⁸ O (<i>Normalized</i>)	H ₂ O	60	5	1.0g
IO 6489	Water- ¹⁸ O (<i>Normalized</i>)	H ₂ O	80	5	1.0g

IO 6490	Water- ¹⁸ O (<i>Normalized</i>)	H ₂ O	99	5	1.0g
IO 6495	Water- ¹⁸ O (<i>Unnormalized</i>)	D ₂ O	99	5	1.0g

* These Compounds are also available multiply-labeled.

WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Sulfur-34 Compounds

(natural abundance 4.22%)

Sulfur is becoming an increasingly important research tool for studying environmental pollution, for ecological, medical, and biomedical research.

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IS 7012	Carbon disulfide	CS ₂	90	5	1.0g
IS 7016	Carbonyl sulfide	COS	90	2	250ml / 500ml
IS 7080	Magnesium Sulfate	MgSO ₄	90	7	1.0g
IS 7095	Potassium thiocyanate	KSCN ₂	90	7	0.5g
IS 7109	Sulfur	S	90	7	0.5g
IS 7110	Sodium sulfate	Na ₂ SO ₄	90	7	0.5g
IS 7112	Sulfur dioxide	SO ₂	90	2 & 4	100ml
IS 7115	Sulfuric acid	H ₂ SO ₄	90	5	0.5g
IS 7125	Thioacetamide	CH ₃ CSNH ₂	90	7	0.5g
IS 7128	Theoacetic acid	CH ₃ COSH	90	5	0.5g
IS 7130	Thiourea	NH ₂ CSNH ₂	90	7	0.5g

Sulfur-34 Production Plans:

We are preparing to make available bulk quantities of the above compounds with enrichment levels of approximately 10%.

The pricing of these materials will be targeted to encourage large-scale agricultural and extended environmental studies.

NOTE - concerning Sulfur-36:

We have been able to offer the above compounds at reasonable price levels. Low enrichment material for agricultural studies is also available economically from time to time. *Please inquire.*

WE INVITE YOUR INQUIRIES FOR COMPOUNDS NOT LISTED

ICON ISOTOPES

Nitrogen-15 Compounds in Agricultural Applications



Stable isotopes as Nitrogen-15 have been used in the following areas of agricultural research:

1. Studying the turnover of nitrogen in soil
2. Determining the distribution of applied nitrogen in soil organic matter
3. Studying soil organic matter composition and degradation
4. Measuring uptake and use of fertilizer nitrogen
5. Measuring recovery of nitrogen in crop residues by plants
6. Following nitrogen movements in soils
7. Measuring nitrogen loss
8. Studying denitrification
9. Studying environmental aspects of nitrogen use
10. Studying the degradation of organic chemicals added to soils
11. Identifying and comparing biological systems that fix atmospheric nitrogen
12. Measuring biological nitrogen fixation
13. Following distribution of nitrogen among plant parts
14. Studying nitrogen metabolism in plants

Icon is geared both technically and quantitatively to service the research needs of the agronomist and soil scientist in Nitrogen-15 research. Our personnel have been involved in supplying ^{15}N for most of the larger field trials in recent years, and this experience enables us to adapt our production to meet most requirements. The more commonly used compounds are detailed in this catalog. We will also blend to specific enrichments upon request.

Material Form

The most common form is as crystalline powder; however, material can be supplied in solution form and as pellets.

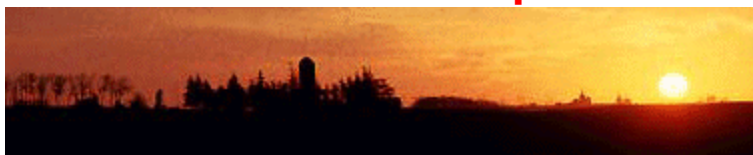
Order Placement Program

We realize that requirements are of a seasonal nature, and as such, can create an excessive demand on our raw material and synthetic capabilities.

To ensure the timely receipt of materials ordered from Icon, we offer a *Material Hold Program*, whereby the requirements of researchers are stockpiled ahead of time and therefore can be shipped immediately upon demand should weather conditions break or threaten to affect application plans. (We regretfully must stipulate that this applies to catalog-listed enrichments only).

ICON ISOTOPES

Elements and Compounds



U. S. Services is a trade name for Icon's range of Elements and compounds thereof:

1. Antimony-121 & 123 Forms Metal, Oxide & Sulfide
2. Barium-130,132,134,135,136,137 & 138 Forms Carbonate, Chloride & Metal
3. Boron-10 & 11 Forms Boric acid, Calcium Fluoride, Carbide, Crystalline, Metal & Trifluoride
4. Bromine-79, 81 Forms Ammonium, Potassium & Sodium Bromide
5. Cadmium-106,108,110,111,112, 113, 114, 116 Forms Bromide, Chloride, Iodide, Metal, Oxide & Sulfide
6. Calcium-40, 42, 43, 44 ,46, 48 Forms Carbonate, Chloride, Metal, Nitrate & Oxide
7. Cerium-136,138,140,142 Forms Hydrated Nitrate Metal & Oxide
8. Chlorine-35, 37 Forms Barium Chloride, Chlorine Gas & Sodium
9. Chromium-50,52,53,54 Forms Metal, Oxide & Sodium Chromate
10. Copper-63, 65 Forms Metal & Oxide
11. Dysprosium-156,158,160,161,162,163,164 Forms Hydrated Nitrate, Metal & Oxide
12. Erbium-162, 164, 166, 167, 168 ,170 Forms Hydrated Nitrate, Metal & Oxide
13. Europium-151, 153 Forms Hydrated Nitrate Metal & Oxide
14. Gadolinium-152, 154, 155, 156, 157, 158, 160 Forms Hydrated Nitrate, Metal & Oxide
15. Callium-69, 71 Forms Metal & Oxide
16. Germanium-70, 72, 73, 74, 76 Forms Metal & Oxide
17. Hafnium-174,176,177,178,179,180 Forms Metal & Oxide
18. Indium-113, 115 Forms Metal & Oxide
19. Iridium-191, 193 Forms Metal
20. Iron-54, 56, 57, 58 Forms Ferric Oxide, Metal slug , foil & Oxide
21. Lanthanum-138, 139 Forms hydrated Nitrate & Oxide

22. Lead-204, 206, 207, 208 Forms Carbonate, Chloride Metal, Nitrate & Oxide
23. Lithium-6, 7 Forms Acetate, Bromide, Carbonate, Chloride, Deuteride, Deuterioxide, Formate, Fluoride, Hydroxide Hydrate, Hydroxide Monohydrate, Nitrate, Perchlorate & Sulfate
24. Lutetium-175, 176 Forms Hydrated Nitrate, Metal & Oxide
25. Magnesium-24, 25, 26 Forms Chloride, Metal & Oxide
26. Mercury-196, 198, 199, 200, 201, 202, 204 Forms Metal, Oxide & Sulfide
27. Molybdenum-92, 94, 95, 96, 97, 98, 100 Forms Metal & Oxide
28. Neodymium-142, 143, 144, 145, 146, 148, 150 Forms Fluoride, Hydrated nitrate, Metal & Oxide
29. Nickel-58, 60, 61, 62, 64 Forms Chloride, Metal & Oxide
30. Osmium-184, 186, 187, 188, 189, 190, 192 Forms Hydrated Oxide & Metal
31. Palladium-102, 104, 105, 106, 108, 110 Forms Metal
32. Platinum-190, 192, 194, 195, 196, 198 Forms Metal
33. Potassium-39, 40, 41 Forms Carbonate, Chloride & Metal
34. Rhenium-185, 187 Forms Metal
35. Rubidium-85, 87 Forms Carbonate, Chloride & Metal
36. Ruthenium-96, 98, 99, 100, 101, 102, 104 Forms Hydrated Oxide & Metal
37. Samarium-144, 147, 148, 149, 150, 152, 154 Forms Hydrated Nitrate, Metal & Oxide
38. Selenium-74, 76, 77, 78, 80, 82 Forms Metal & Oxide
39. Silicon-28, 29, 30 Forms Metal, Oxide, Silane & Tetrafluoride
40. Silver-107, 109 Forms Chloride, Metal, Nitrate & Oxide
41. Strontium-84, 86, 87, 88 Forms Carbonate, Chloride, Metal & Nitrate
42. Sulfur-32, 33, 34, 36 Forms Elemental, Metal & Thioacetic acid
43. Tantalum-180 Forms Oxide
44. Tellurium-120, 122, 123, 124, 125, 126, 128, 130 Forms Metal & Oxide
45. Thallium-203, 205 Forms Metal & Oxide
46. Tin-112, 114, 115, 116, 117, 118, 119, 120, 122, 124 Forms Metal & Oxide
47. Titanium-46, 47, 48, 49, 50 Forms Metal & Oxide
48. Tungsten-180, 182, 183, 184, 186 Forms Metal & Oxide
49. Vanadium-50, 51 Forms Metal & Oxide

50. Ytterbium-168, 170, 171, 172, 173, 174, 176 Forms Hydrated Nitrate,
Metal & Oxide

51. Zinc-64, 66, 67, 68, 70 Forms Metal, Oxide & Sulfate

52. Zirconium-90, 91, 92, 94, 96 Forms Metal & Oxide

Elements as Targets and Foils with various backings can be reviewed upon
request.

ICON ISOTOPES

Conditions of Sale

The following conditions apply to and are deemed to be incorporated in all contracts made by Icon unless the contrary is expressly and specifically agreed in writing by Icon. They apply for the benefit of Icon and its employees. They exclude any terms or conditions proffered by Customer. Delaware law shall apply.

1. Prices for Icon products are FOB Saugerties. New York lab or Summit. New Jersey (US). Given the nature of these materials, prices are subject to fluctuation and should be confirmed at time of sale.

Prices quoted are exclusive of any applicable local, state, or Federal taxes.

In the case of export of Icon products, the Client shall confirm - prior to ordering, that they have procured any necessary import licenses or permissions.

Prices when given in Icon products price lists are intended as indications only. The specific price for any Icon product will be quoted by fax, phone, or Email in response to order inquiries.

If at any time Icon's costs change due to Government action or as a consequence of Government legislation or regulations, Icon reserves the right to adjust the price to take into account any such changes in the costs of providing such products.

2. Where no other terms of payment have been specified, Icon's terms of payment are *net 30 days* in the currency specified on the invoice.

If any payment on the Client's account is in arrears, Icon reserves the right to discontinue forthwith the provision of and further supply of Icon products to the client under contract.

3. The Client is responsible for taking all proper and necessary precautions for the storage, handling, and use of products supplied by Icon, and for complying with all relevant statutory requirements and obligations. We recommend:

➔ These materials should only be handled by trained personnel who are also familiar with the potential hazards.

➔ The appropriate precautions should be taken in the handling, use, and the disposal of all Icon products.

➔ All materials offered for sale by Icon on this website, in its printed literature, or by special quotation, are produced and provided as *research* chemicals only, and as such, are not intended for use in/on humans. The appropriate government regulatory agency approval(s) must be secured for any human research.

In the absence of any special arrangements to the contrary, it is the Client's responsibility to ensure that the nature, capacity, and performance of the Icon products ordered by them are appropriate to, sufficient for, and suitable for their purposes.

4. Icon products are supplied in non-returnable and non-reusable (non-refillable) containers unless otherwise specified.
5. Icon products shall remain the property of Icon until the whole of the contract price has been paid, but after delivery, the Client shall be responsible for and shall indemnify Icon against all loss or damage to the product(s) regardless, and from whatever cause.
6. All *telephone orders* in excess of \$500 (US) shall be confirmed by the Client in writing, and shall be subject to the(se) conditions upon which the Client has an account with Icon for the manufacture and supply of products. Unless contrary to such confirmation, Icon's records of the telephone order shall apply to the terms of sale.
7. Icon's policy is to fulfill all Client orders promptly, and in general, to ship orders on the same day as received, but shall not be liable if the Client should suffer loss through any delay in delivery or failure of delivery.
8. The Client should carefully check Icon products as to their quantity and quality upon receipt, and must notify Icon in the events of any deficiencies within seven days of their delivery.

When such notification is made, the Client is required to retain the Icon product(s) and their original packing until Icon informs the Client as to the disposition and handling of the material(s).

In cases of exported products, if the Client has not received any Icon product(s) within 14 days of their receipt of the advice note, they should notify Icon immediately so that a claim may be investigated on their behalf.

Product(s) may only be returned subsequent to prior notification and permission. In such an instance, an acknowledgement and acceptance advice number will be issued to the Client.

9. Icon products are warranted to be free of patent or other industrial property restrictions as supplied.
10. **Limited Warranty:** Icon warrants at the time of shipment that the product(s) is as described to the Client. No warranty is expressed or implied as to fitness for any particular purpose (which is the responsibility of the Client). Maximum liability for any and all reasons shall be limited to the refunding of the invoice price(s) for the respective products or replacement of the product(s).
11. The Client agrees to indemnify Icon and its employees or agents against any claim, any action, or any loss, damage, or injury:

howsoever arising on the Client's premises (save to the extent that such incident or instance is proven to be directly caused by the negligence of Icon, its employees, or agents), or--

arising out of any breach by the Client of any condition or provision of this contract of sale, or--

caused or contributed to by the negligence or default of the Client, or its employees, or agents, or any other persons under its control directly or indirectly.
12. If a Client requires Icon products to be produced to their own custom specifications or special requirements, Icon shall endeavor to supply such products, but reserves the right to cancel the order at any time if in its judgement

or opinion the order cannot be fulfilled, and in the instance of such cancellation of the Client's order, it is understood that Icon shall not be subject to any liability.

As regards the supply of such Icon products, no warranty is given or implied, and the Client shall accept full liability and responsibility with respect to any infringement of patent(s) or other industrial property rights, and agrees to indemnify Icon against all claims, losses, or costs as such that may arise therefrom.

ICON ISOTOPES

Packaging and Shipping



Packaging

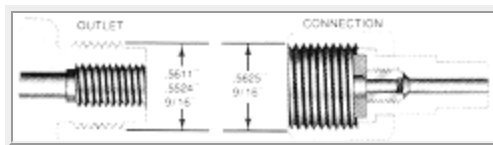
1. Non-corrosive Gas
2. Corrosive Gas, Carbon Steel Cylinder
3. Corrosive Gas, Stainless Cylinder
4. Breakseal
5. Ampule
6. Breakseal Ampule
7. Vial
8. Heavy Glass Bottle
9. Polyethylene Bottle

Shipping

1. Non-restricted Chemicals
2. Restricted Chemicals
3. Common Carrier (Truck)
4. WARNING

Packaging Options and Specifics:

1. Carbon steel cylinder measuring 1-15/16" x 11-7/8" with an internal capacity of 420ml, DOT rating 3E1800. Brass valve. The non-corrosive gases cylinder outlet is a CGA 170 (additional charge) *illustrated below*.



CGA-170 Specifications: 9/16" - 18 R.H. outlet, 5/16" - 32 RH internal connection. Washer required on flat seat.

2. Carbon steel cylinder measuring 1-15/16" x 11-7/8", with an internal capacity of 420ml, DOT rating 3E1800. Steel valve. Corrosive gases cylinder outlet is CGA 110 (additional charge) *illustrated below*.



CGA-110 Specifications: 5/16" - 32 R.H. Internal Outlet. Washer required on flat seat.

3. Stainless steel (304) cylinder 1-1/2" x 4-5/8" with an internal capacity of 75ml. DOT rating 3E1800. Stainless steel valve, with a 1/4 NPT male outlet. Cylinders with internal capacities of 150, 300, 500 & 1000ml are also available (additional charge).
4. Breakseals are manufactured to our specifications and include a strengthened outlet tube. Specifications are:

Breakseal Sizes	100ml	250ml	1000ml
Overall length	27cm	30cm	36cm
Outlet Size O.D.	10mm	10mm	13mm
Outlet Wall Thickness	1.5mm	1.5mm	1.5mm

5. Specially constructed ampules are used to minimize breakage losses in handling and transportation.
6. A sealed heavy Borosilicate glass breakseal ampule is used with a protective cardboard sleeve.
7. Vials with a screen cap or a straight sided shell, with a 1-piece polyethylene stopper. A celon seal secures both containers.
8. Heavy glass bottle clear or amber, with a screen cap and a polyseal plastic liner. A celon secures both containers.
9. Nalgene® - round, conventional polyethylene bottles, with polypropylene screen closures in various sizes, sealed with a celon.
* (**Nalgene** ® is a registered trademark of the Nalge Company)

Shipping



Unless a specific method of shipment is requested, most of our shipments are handled by UPS or Fedex who pick up at our facilities daily. UPS Freight Services offered are: Ground, Overnight Air, or 2nd-Day Air, depending upon the nature of the product/s ordered.

1. **Non-restricted Chemicals** can be shipped by any of these methods.
2. **Restricted Chemicals** are shipped via UPS or Fedex assuming that the specific product is acceptable.

NOTE: Certain Poison-B chemicals, such as Potassium & Sodium Cyanide *are* accepted by UPS, assuming the mandatory DOT labelling and packaging.

3. **Common Carrier (Truck)**: any materials that *are* restricted by UPS will be shipped via Common Carrier. The NY/NJ area is serviced by most regional and national carriers, and usually, prompt consignment can be made of these materials.
4. **WARNING**: whichever form of transportation is requested, Icon will be guided primarily by regulations imposed by any or all of the following agencies and authorities

DOT - Department of Transportation
IATA - International Air Transport Association
ICC - Interstate Commerce Commission
USPS - United States Postal Service

Any constraints imposed by these agencies and authorities will be communicated to the respective Client promptly, with the specific details, if the Client's shipping specifications cannot be followed for any reason.

ICON ISOTOPES

Grant-In-Aid Program

Because Icon is founded on the concept of service to the scientific community and promotion of the use of stable isotopes as tracers, we are pleased to offer grants-in-aid to institutions whose staff or students have a demonstratable need for labeled material, but whose budget will not permit the purchase of isotope compounds.

Since our first grant in June 1988, of deuterium oxide to the International Medical Relief team from St.Luke's - Roosevelt Hospital Center (who were addressing some of the immediate needs of children in northern Ethiopia), we have made many grants of labelled compounds. Applicants for this ICON program should submit a detailed letter to Icon Services describing their purpose and need for a materials grant. Applications are reviewed on a quarterly basis.

ICON ISOTOPES

Catalog Explanation

This catalog lists compounds under each stable isotope in alphabetical order. A specific catalog number has been assigned to each compound. A typical example:

Cat.No.	Compound	Formula	Atom %	Packaging Type	Std Pkg Size
IC 3005	Acetaldehyde-1- ¹³ C	CH ₃ CHO	99	6	0.5g
A	B	C	D	E	F

- A. The Specific Catalog Number
- B. Compound and Position of Isotope Label
- C. Chemical Formula with Labeled Position in Bold Print
- D. The Minimum Isotope Enrichment
- E. Standard Package Used for this Product
- F. Standard Package in which Product is supplied

ICON ISOTOPES

Icon Clients

The following is a partial list - periodically updated - of organizations for whom synthetic work or research and development activities have been provided:

Abilene Christian University	University of Alabama
University of Alaska	American Health Foundation
ARCO Chemical Company	Argonne National Laboratory
University of Arizona	University of Arkansas
Atlanta University	AT&T Laboratories
Baylor College of Medicine	Brigham Young University
Brown University	California Institute of Technology
University of California - All Locations	Carnegie-Mellon University
Case Western Reserve University	Catholic University of America
Celanese	Chevron Chemical Company
Cornell Medical School	CIBA-Geigy Corporation
University of Cincinnati	University of Colorado - All Locations
Dow Corning Corporation	University of Delaware
Drexel University	Duke University
E. I. DuPont Company	Exxon R & D Company
Florida State University	University of Florida
University of Georgia	Georgetown University
Georgia Technological University	Goddard Space Flight Center
W. R. Grace Corporation	Harvard University
Honeywell Corporation	Hunter College
IBM	University of Illinois
Indiana University	International Fertilizer Development Agency
Iowa State University	Johns-Hopkins University
Kent State University	Lehigh University
Louisiana University	Martin Marietta Energy Systems
Marquette University	University of Maryland
Massachusetts Institute of Technology	University of Massachusetts
Mayo Foundation	University of Michigan
Michigan State University	University of Minnesota
University of Missouri	Mobil R & D
Motorola Company	NASA
National Cancer Institute	U.S. Naval Research Laboratory
University of Nebraska	SUNY - All Locations
NOAA	North Dakota State University
Northwestern University	University of Oklahoma
Oberlin College	Ohio State University
Phillips Petroleum	Pennsylvania State University
Princeton University	Purdue University
3M Corporation	University of Rhode Island
Rockefeller University	University of Rochester
San Diego State University	Schering Corporation
Shell Development Company	SKF
SRI	Stanford University
St. Louis University	Technicare Corporation
University of Texas	Texas A & M University
Tufts University	U.S. Army
USDA	U.S. Department of Energy
University of Utah	VA Medical Centers
Vanderbilt University	Warner Lambert Company
Washington State University	University of Wisconsin

Icon Services Inc. would like to thank all of the above mentioned organizations for their business and patronage. This directory is an expression of our appreciation and does not necessarily imply the endorsement of an organization.

ICON ISOTOPES

Contact Icon Isotopes

You may contact us by any of the following methods

- ▶ Letter
ICON SERVICES
19 Ox Bow Lane;
Summit,
NJ 07901, USA
- ▶ Fax
(908) 273-0440
- ▶ E-Mail
iconisot@gmail.com

Icon Labeling Inc, 19 Ox Bow Lane; Summit, NJ 07901 USA
Telephone: (908) 522-9090
Fax: (908) 273-0440 | E.mail: iconisot@gmail.com