

The Standard

Cambridge Isotope Laboratories



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EPA Toxics Release Inventory

Persistent Bio-accumulative, and Toxic Chemicals

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The US EPA Toxics Release Inventory (TRI) is a publicly available database that contains information on the release of toxic chemicals as well as other waste management activities reported annually by certain covered industry groups and federal facilities. This inventory was established under the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and expanded by the Pollution Prevention Act of 1990. (Source: www.epa.gov/tri/index.htm)

TRI Category Name	TRI Catalog #	CIL Catalog #	Reporting Threshold (in pounds unless noted otherwise)
Dioxin and dioxin-like Compounds	N150	ED, EF Compounds	0.1 grams
Lead Compounds	N420	PBLM Compounds	100
Mercury Compounds	N458	HGLM Compounds	10
Polycyclic Aromatic Compounds (PACs)	N590	See Table 1	100

The US EPA has published two final rules that lowered the TRI reporting thresholds for certain persistent bioaccumulative toxic (PBT) chemicals and added certain other PBT chemicals to the TRI list of toxic chemicals. These PBT chemicals are of particular concern not only because they are toxic but also because they remain in the environment for long periods of time, are not readily destroyed, and build up or accumulate in body tissue. The list below summarizes these new TRI reporting thresholds. (Source: www.epa.gov/tri/lawsandregs/pbt/pbtrule.htm)

PBT Chemical Name	CAS RN	CIL Catalog #	Reporting Threshold (in pounds)
Aldrin	309-00-2	CLM-4725-1.2	100
Benzo(g,h,i)perylene	191-24-2	CLM-1364-1.2	10
Chlordane	57-74-9	CLM-4792-1.2 (trans)	10
Heptachlor	76-44-8	CLM-4759-1.2	10
Hexachlorobenzene	118-74-1	CLM-351-1.2	10
Isodrin	465-73-6	CLM-4727-1.2	10
Methoxychlor	72-43-5	CLM-4683-1.2	100
Octachlorostyrene	29082-74-4	CLM-6680-1.2	10
Pendimethalin	40487-42-1		100
Pentachlorobenzene	608-93-5	CLM-2050-1.2	10
Polychlorinated biphenyls (PCBs)	1336-36-3	EC- Compounds	10
Tetrabromobisphenol A	79-94-7	CLM-4694-1.2	100
Toxaphene	8001-35-2	CLM-4247-0	10
Trifluralin	1582-09-8	DLM-4479-1.2	100

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TABLE 1: TRI Polyaromatic Compounds (PACs) / Polyaromatic Hydrocarbons (PAHs):

¹³ C labeled Catalog #	Deuterated Catalog #	Unlabeled Catalog #	Chemical Name	CAS # (unlabeled)	Sources
CLM-3602-1.2	DLM-610-1.2	ULM-2415-1.2	Benzo(a)anthracene	56-55-3	Product of incomplete combustion (PIC); Fossil fuels (FF)
CLM-3757-1.2	DLM-261-1.2	ULM-261-S	Benzo(a)phenanthrene (Chrysene)	218-01-9	PIC; FF; coke plant exhaust
CLM-2722-1.2	DLM-258-1.2	ULM-2412-1.2	Benzo(a)pyrene	50-32-8	PIC; FF coal tar; municipal incinerator emissions
CLM-3599-1.2	DLM-2136-1.2	ULM-2416-1.2	Benzo(b)fluoranthene	205-99-2	PIC; FF
		ULM-2411-25	Benzo(j)fluoranthene	205-82-3	PIC; FF; coal tar
CLM-3756-1.2	DLM-1923-1.2	ULM-2417-1.2	Benzo(k)fluoranthene	207-08-9	PIC; FF; coal tar
CLM-3597-1.2	DLM-2140-1.2	ULM-2140-S	Benzo(j,k)fluorene (Fluoranthene)	206-44-0	PIC; FF; coal tar
CLM-3774-1.2	DLM-3740-1.2	ULM-2423-1.2	Benzo(r,s,t)pentaphene (Dibenzo[a,i]pyrene)	189-55-9	PIC; FF; coal tar
			Dibenz(a,h)acridine	226-36-8	PIC (particularly coal burning processes)
		ULM-3884-1.2	Dibenz(a,j)acridine	224-42-0	PIC (particularly coal burning processes)
CLM-3598-1.2	DLM-677-1.2	ULM-2422-1.2	Dibenz(a,h)anthracene	53-70-3	PIC; FF; coal tar; gasoline engine exhaust tar
		ULM-6671-1.2	Dibenzo(a,e)fluoranthene	5385-75-1	PIC
CLM-3835-1.2		ULM-1226-0.01	Dibenzo(a,e)pyrene	192-65-4	PIC; FF
		ULM-1227-25	Dibenzo(a,h)pyrene	189-64-0	PIC; FF; coal tar
		ULM-1253-25	Dibenzo(a,l)pyrene	191-30-0	PIC; coal gasification
		ULM-3885-1.2	7H-Dibenzo(c,g)carbazole	194-59-2	Coal burning processes; coal tar and coal distillates
CLM-3600-1.2	DLM-2148-1.2	ULM-2426-1.2	Indeno(1,2,3-cd)pyrene	193-39-5	PIC; FF; coal tar
			3-Methylcholanthrene	56-49-5	Produced in small quantities as a research chemical, not formed during combustion
		ULM-6235-1.2	5-Methylchrysene	3697-24-3	PIC
	DLM-1528-1.2	ULM-3978-1.2	1-Nitropyrene	5522-43-0	Diesel and gasoline engines; conversion plants; coal fired energy; aluminum smelter stack gases

(http://www.epa.gov/tri/guide_docs/2001/pacs2001.pdf)

Acrylamide

Recent studies at Stockholm University in Sweden have shown high levels of acrylamide in many baked goods, such as potato chips and bread. Acrylamide has been assessed by the US Environmental Protection Agency as a medium cancer risk, and the levels found in baked goods were shown to exceed levels set by the World Health Organization for acrylamide in drinking water. CIL has labeled acrylamide standards available to enable analysis by isotope dilution/mass spectrometry.

1mg/ml solutions of ¹³C₃ Acrylamide in methanol, stabilized with +100 PPM Hydroquinone are now available from CIL - please request (CLM-813-1.2)





Because of recent increased interest in Brominated Flame Retardants, CIL has exhausted inventories of several Brominated Diphenyl Ether (BDE) mixes. CIL's enhanced formulation and QC processes required the reevaluation of components used to formulate mixes. Several ¹³C labeled chlorinated diphenyl ethers (CDEs) had been used for early formulations (circa 1997 and after) because of inavailability of ¹³C labeled BDEs. With the increased availability of BDE's, it is no longer necessary to include CDEs in these mixtures. In addition to DecaBDE, CIL now has eleven (11) ¹³C-BDEs which are much more appropriate for the analysis of BDEs. After consultation with the research groups that initiated production of EO-4980, we have agreed to produce new standards that include members from the seven homologue groups monoBDE through heptaBDE in the Surrogate Spike, and a tetraBDE and a pentaBDE in the Performance Standard. The recently-synthesized BDE-118 congener will also be added to the native analyte list. The Analytical Standard will reflect these enhancements. Congeners in bold print highlight new additions to the mixtures.

EO-5099 Polybrominated Diphenyl Ether Analytical Standard Solution \$895
(Replaces EO-4980) 1.2 ml in nonane

Unlabeled Congener (BZ#)	Concentration (ng/ml)	Unlabeled Congener (BZ#)	Concentration (ng/ml)	Unlabeled Congener (BZ#)	Concentration (ng/ml)
2-MonoBDE (#1)	100	2,4,6-TriBDE (#30)	100	2,2',4,4',6-PentaBDE (#100)	150
3-MonoBDE (#2)	100	2,4',6-TriBDE (#32)	100	2,3,4,5,6-PentaBDE (#116)	150
4-MonoBDE (#3)	100	2',3,4-TriBDE (#33)	100	2,3',4,4',5-PentaBDE (#118)	150
2,4-DiBDE (#7)	100	3,3',4-TriBDE (#35)	100	2,3',4,4',6-PentaBDE (#119)	150
2,4'-DiBDE (#8)	100	3,4,4'-TriBDE (#37)	100	3,3',4,4',5-PentaBDE (#126)	150
2,6-DiBDE (#10)	100	2,2',4,4'-TetraBDE (#47)	100	2,2',3,4,4',5'-HexaBDE (#138)	200
3,3'-DiBDE (#11)	100	2,2',4,5'-TetraBDE (#49)	100	2,2',4,4',5,5'-HexaBDE (#153)	200
3,4-DiBDE (#12)	100	2,3',4,4'-TetraBDE (#66)	100	2,2',4,4',5,6'-HexaBDE (#154)	200
3,4'-DiBDE (#13)	100	2,3',4',6-TetraBDE (#71)	100	2,2',4,4',6,6'-HexaBDE (#155)	200
4,4'-DiBDE (#15)	100	2,4,4',6-TetraBDE (#75)	100	2,3,4,4',5,6-HexaBDE (#166)	200
2,2',4-TriBDE (#17)	100	3,3',4,4'-TetraBDE (#77)	100	2,2',3,4,4',5,6-HeptaBDE (#181)	250
2,3',4-TriBDE (#25)	100	2,2',3,4,4'-PentaBDE (#85)	150	2,2',3,4,4',5',6-HeptaBDE (#183)	250
2,4,4'-TriBDE (#28)	100	2,2',4,4',5-PentaBDE (#99)	150	2,3,3',4,4',5,6-HeptaBDE (#190)	250

¹³ C Labeled BDE	Concentration (ng/ml)	¹³ C Labeled BDE	Concentration (ng/ml)	¹³ C Labeled BDE	Concentration (ng/ml)
4-MonoBDE (¹³ C ₁₂₂ , 99%) (#3)	100	3,3',4,4'-TetraBDE (¹³ C ₁₂₂ , 99%) (#77)	100	3,3',4,4',5-PentaBDE (¹³ C ₁₂₂ , 99%) (#126)	150
4,4'-DiBDE (¹³ C ₁₂₂ , 99%) (#15)	100	2,2',4,4',5-PentaBDE (¹³ C ₁₂₂ , 99%) (#99)	150	2,2',4,4',5,5'-HexaBDE (¹³C₁₂₂, 99%) (#153)	200
2,4,4'-TriBDE (¹³C₁₂₂, 99%) (#28)	100	2,2',4,4',6-PentaBDE (¹³ C ₁₂₂ , 99%) (#100)	150	2,2',3,4,4',5',6-HeptaBDE (¹³C₁₂₂, 99%) (#183)	250
2,2',4,4'-TetraBDE (¹³ C ₁₂₂ , 99%) (#47)	100	2,3',4,4',5-PentaBDE (¹³C₁₂₂, 99%) (#118)	150		

EO-5100 Polybrominated Diphenyl Ether Surrogate Spiking Solution \$350
(Replaces EO-4981) 1.2 ml in nonane

¹³ C Labeled Congener	Concentration (ng/ml)	¹³ C Labeled Congener	Concentration (ng/ml)	¹³ C Labeled Congener	Concentration (ng/ml)
4-MonoBDE (¹³ C ₁₂₂ , 99%) (#3)	100	2,2',4,4'-TetraBDE (¹³ C ₁₂₂ , 99%) (#47)	100	2,3',4,4',5-PentaBDE (¹³C₁₂₂, 99%) (#118)	150
4,4'-DiBDE (¹³ C ₁₂₂ , 99%) (#15)	100	2,2',4,4',5-PentaBDE (¹³ C ₁₂₂ , 99%) (#99)	150	2,2',4,4',5,5'-HexaBDE (¹³ C ₁₂₂ , 99%) (#153)	200
2,4,4'-TriBDE (¹³C₁₂₂, 99%) (#28)	100	2,2',4,4',6-PentaBDE (¹³ C ₁₂₂ , 99%) (#100)	150	2,2',3,4,4',5',6-HeptaBDE (¹³C₁₂₂, 99%) (#183)	250

EO-5101 Polybrominated Diphenyl Ether Performance Standard Solution \$195
(Replaces EO-4151) 1.2 ml in nonane

¹³ C Labeled Congener	Concentration (ng/ml)	¹³ C Labeled Congener	Concentration (ng/ml)
3,3',4,4'-TetraBDE (¹³ C ₁₂₂ , 99%) (#77)	100	3,3',4,4',5-PentaBDE (¹³C₁₂₂, 99%) (#126)	150

Please inquire about the availability of a set of EO-5104 calibration solutions for use in HRGC/MS BDE analysis.

Chemical Weapons Metabolites

Over the years, CIL has developed a large offering of chemical weapons metabolites, natural toxins, and chemical weapons/pesticide metabolites. The following compounds have been synthesized at Cambridge Isotope Laboratories; please inquire about pricing and availability.

Catalog

Mustard Gas Metabolites

CLM-4806	beta-Thiodiglycol ($^{13}\text{C}_4$, 99%)
CLM-4864	Bis(2-hydroxyethyl thio)ether (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
CLM-4866	Bis(2-hydroxyethyl thio)methane (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
CLM-4868	1,2-Bis(2-hydroxyethyl thio)ethane (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
CLM-4870	1,3-Bis(2-hydroxyethyl thio)propane (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
CLM-4872	1,4-Bis(2-hydroxyethyl thio)-n-butane (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
CLM-4874	1,5-Bis(2-hydroxyethyl thio)-n-pentane (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
CLM-4876	Bis(2-hydroxyethyl thiomethyl)ether (bis-2-hydroxyethyl $^{-13}\text{C}_4$, 99%)
ULM-4865	Bis(2-hydroxyethyl thio)ether (unlabeled)
ULM-4867	Bis(2-hydroxyethyl thio)methane (unlabeled)
ULM-4869	1,2-Bis(2-hydroxyethyl thio)ethane (unlabeled)
ULM-4871	1,3-Bis(2-hydroxyethyl thio)propane (unlabeled)
ULM-4873	1,4-Bis(2-hydroxyethyl thio)-n-butane (unlabeled)
ULM-4875	1,5-Bis(2-hydroxyethyl thio)-n-pentane (unlabeled)
ULM-4877	Bis(2-hydroxyethylthiomethyl)ether (unlabeled)

Catalog

Chemical Weapons Metabolites

CLM-6029	Triethanolamine ($^{13}\text{C}_6$, 99%)
CLM-6030	n-Ethyldiethanolamine (diethanol- $^{13}\text{C}_4$, 99%)
CLM-6055	n-Methyldiethanolamine (diethyl- $^{13}\text{C}_4$, 99%)

Catalog

Natural Toxin

CLM-6106	Ricinine (ring- $^{13}\text{C}_5$, 99%; cyano- ^{13}C , 99%)
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Catalog

Chemical Weapons/Pesticide Metabolites

CDLM-6100	Methylphosphonic acid (^{13}C , 99%; methyl- D_3 , 98%)
CLM-4903	Ethylphosphonic acid, monoethyl ester ($^{13}\text{C}_4$, 99%)
CLM-4905	Ethylphosphonic acid, mono-n-propyl ester (ethyl- $^{13}\text{C}_2$, propyl-1- ^{13}C , 99%)
CLM-4907	Ethylphosphonic acid, mono-isopropyl ester (ethyl- $^{13}\text{C}_2$, isopropyl-2- ^{13}C , 99%)
CLM-4909	\pm -Ethylphosphonic acid, mono-(1,2-dimethyl propyl) ester (ethyl- $^{13}\text{C}_2$, 1-methyl- ^{13}C , 99%)
CLM-4911	Methylphosphonic acid, mono-n-propyl ester (propyl- $^{13}\text{C}_3$, 99%)
CLM-4913	Phosphorothioic acid, o,s-dimethyl ester, sodium salt (dimethyl- $^{13}\text{C}_2$, 99%) 85-90% pure
CLM-6090	n,n-Dimethylphosphoramidic acid, monoethyl ester, sodium salt ($^{13}\text{C}_4$, 99%)
CLM-6092	Methylphosphonic acid, monoisopropyl ester (isopropyl- $^{13}\text{C}_3$, 99%)
CLM-6094	Methylphosphonic acid, mono-(1,2-dimethylpropyl) ester (dimethylpropyl- $^{13}\text{C}_5$, 99%)
CLM-6096	Methylphosphonic acid, monocyclohexyl ester (cyclohexyl- $^{13}\text{C}_6$, 99%)
DLM-4851	O,O-Diethyl Phosphoric Acid, Potassium Salt (diethyl- D_{10} , 98%)
DLM-4852	O,O-Diethyl Phosphorothioate, Potassium Salt (diethyl- D_{10} , 98%)
DLM-6098	Methylphosphonic Acid, monoethyl ester (ethyl- D_5 , 98%)
ULM-4851	O,O-Diethyl Phosphorothioate, Potassium Salt (unlabeled)
ULM-4904	Ethylphosphonic acid, monoethyl ester (unlabeled)
ULM-4906	Ethylphosphonic acid, mono-n-propyl ester (unlabeled)
ULM-4908	Ethylphosphonic acid, mono-isopropyl ester (unlabeled)
ULM-4910	\pm -Ethylphosphonic acid, mono-(1,2-dimethyl propyl) ester (unlabeled)

Catalog

Chemical Weapons/Pesticide Metabolites

ULM-4912	Methylphosphonic acid, mono-n-propyl ester (unlabeled)
ULM-6075	O,O-Diethyl Phosphoric acid, Potassium Salt (unlabeled)
ULM-6091	n,n-Dimethylphosphoramidic acid, monoethyl ester, sodium salt (unlabeled)
ULM-6093	Methylphosphonic acid, monoisopropyl ester (unlabeled)
ULM-6095	Methylphosphonic acid, mono-(1,2-dimethylpropyl) ester (unlabeled)
ULM-6097	Methylphosphonic acid, monocyclohexyl ester (unlabeled)
ULM-6099	Methylphosphonic acid, monoethyl ester (unlabeled)
ULM-6101	Methylphosphonic acid (unlabeled)

Phthalate **Metabolites**

Phthalate metabolites have emerged as a growing environmental concern as more is learned about the effect of continued exposure on the environment and the human body. In March 2001, The Centers for Disease Control and Prevention (CDC) issued its National Report on Human Exposure to Environmental Chemicals for samples collected in 1999 during the National Health and Nutrition Examination Survey (NHANES). NHANES is a program that began in 1960 to establish statistical data on illness in the US. The program began to acquire data on lead exposure in 1976, the first environmental contaminant to be assessed in the study. Phthalate ester exposure was added to the 1999 study.

The following phthalate mono- and di-esters are currently available from CIL:

Catalog #	Description	Amount	Price
CLM-4584-1.2	Mono-2-Ethylhexyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in CH ₃ CN	1.2 ml	\$350
CLM-4587-1.2	Mono-Isononyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in CH ₃ CN	1.2 ml	\$350
CLM-4590-1.2	Mono-N-Butyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in CH ₃ CN	1.2 ml	\$350
CLM-4668-1.2	Di-N-Pentyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in nonane	1.2 ml	\$295
CLM-4669-1.2	Di-N-Hexyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in nonane	1.2 ml	\$295
CLM-4670-1.2	Di-Cyclohexyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in nonane	1.2 ml	\$295
CLM-4671-1.2	Di-N-Propyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in nonane	1.2 ml	\$295
DLM-1366-1.2	Dimethyl Phthalate (ring-D ₄ , 98%) 100 µg/ml in nonane	1.2 ml	\$290
DLM-1367-1.2	Di-N-Butyl Phthalate (ring-D ₄ , 98%) 100 µg/ml in nonane	1.2 ml	\$320
DLM-1368-1.2	Bis(2-Ethylhexyl)Phthalate (ring-D ₄ , 98%) 100 µg/ml in nonane	1.2 ml	\$320
DLM-1369-1.2	Benzyl Butyl Phthalate (ring-D ₄ , 98%) 100 µg/ml in nonane	1.2 ml	\$290
DLM-1629-1.2	Diethyl Phthalate (ring-D ₄ , 98%) 100 µg/ml in nonane	1.2 ml	\$225
DLM-1630-1.2	Di-N-Octyl Phthalate (ring-D ₄ , 98%) 100 µg/ml in nonane	1.2 ml	\$290
ULM-4583-1.2	Mono-2-Ethylhexyl Phthalate (unlabeled) 100 µg/ml in acetonitrile	1.2 ml	\$225
ULM-4651-1.2	Mono-Isononyl Phthalate (unlabeled) 100 µg/ml in acetonitrile	1.2 ml	\$225
ULM-6148-1.2	Mono-N-Butyl Phthalate (unlabeled) 100 µg/ml in acetonitrile	1.2 ml	\$225

The following phthalate mono- and di-esters are part of ongoing projects at CIL; please inquire for pricing and delivery:

Catalog #	Description
CLM-4586	Mono-Ethyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in CH ₃ CN
CLM-4588	Mono-Isodecyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%)
CLM-4589	Mono-n-Octyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%)
CLM-4591	Mono-Benzyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in CH ₃ CN
CLM-4592	Mono-Cyclohexyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%)
CLM-6071	Monomethyl Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%) 100 µg/ml in CH ₃ CN
CLM-6225	Monomethyl Isophthalate (ring- ¹³ C ₆ , 99%)
CLM-6238	Bis(2-Ethylhexyl)Phthalate (ring-1,2- ¹³ C ₂ , dicarboxyl- ¹³ C ₂ , 99%)
CLM-6640	DEHP Metabolite VI (¹³ C ₄ , 99%)
CLM-6641	DEHP Metabolite IX (¹³ C ₄ , 99%)
DLM-2707	Dimethyl Phthalate (dimethyl-D ₆ , 99%)
ULM-4662	DEHP Metabolite IX (unlabeled)
ULM-4663	DEHP Metabolite VI (unlabeled)
ULM-4668	Di-N-Pentyl Phthalate (unlabeled) 100 µg/ml in nonane
ULM-4669	Di-N-Hexyl Phthalate (unlabeled) 100 µg/ml in nonane
ULM-4670	Di-Cyclohexyl Phthalate (unlabeled) 100 µg/ml in nonane
ULM-4671	Di-N-Propyl Phthalate standard (unlabeled) 100 µg/ml in nonane
ULM-6116	Mono-3-Ketobutyl Phthalate (unlabeled)
ULM-6129	Di-N-Octyl Phthalate (unlabeled) 100 µg/ml in nonane
ULM-6149	Mono-Benzyl Phthalate (unlabeled)
ULM-4820	Mono-3-Hydroxybutyl Phthalate (unlabeled)
ULM-6226	Monomethyl Isophthalate (unlabeled)



New web page



CIL is excited to announce that our Web site has been completely redesigned. Log on to www.isotope.com and you will find:

- A Products page that is organized by product group and application category to assist you in finding the right product for your application. New products are also included on this page.
- An easy-to-use, searchable database of over 8,000 CIL products. You can search by product name, catalog number or even isotopic label.
- Complete "shopping cart" functionality so you can quickly and easily place items in your shopping cart and "checkout".
- A simple online form to request a quote for a non-catalog size or a custom synthesis.
- A quick and easy system to submit technical questions or request technical and marketing literature.
- Our Special Promotions section for opportunities to save money on selected items.

For over 20 years it has been our pleasure to answer your calls, visit your facilities and respond to your inquiries. Our new Web site is just one more way for you to interact with us. We hope that www.isotope.com will be more convenient for you in many ways. The CIL you have known for years is still here; we have incorporated new technology to serve you better. Please give us a call when you want to talk to us. You will continue to get the same service you've come to expect from CIL.



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