Plastic Additives

NEW

Plastics and other polymeric materials have become indispensable in our everyday lives. Although they offer many benefits, hazardous chemicals may be present in these materials. These hazardous materials can be introduced either intentionally as additives, or unintentionally as pollutants.

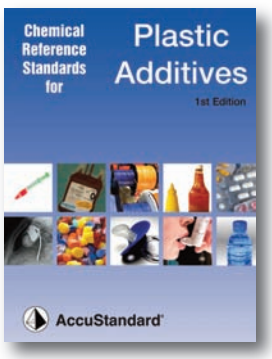
AccuStandard has collected or synthesized many of these polymer adjuncts and is pleased to present them in this newest unique product line as Certified Reference Standards for monitoring these chemicals.

The occurrence, toxicity and analytical methods used in the detection, monitoring (for both presence and levels) of these chemical classes and individual compounds within these classes are more thoroughly described in the book the "Handbook for the Chemical Analysis of Plastic and Polymer Additives" (published in 2007 by CRC Press). Both manufacturers and analytical laboratories will find the CRC book to be an authoritative source of information that compliments this catalog.

Calibrating with Certified Standards adds an additional layer of confidence in the analysis that can aid in meeting regulations, protecting in challenges from governmental regulations, and providing protection from legal issues that could be raised by consumers.

Below find a list of regulations that require analysis of many of these additives:

- EU Directives 2002/96/EC and 2002/95/EC WEEE (Waste Electrical and Electronic Equipment) that establishes limits for the content of a product that must be recyclable or reusable.
- EU Directive 2003/11/EC RoHS (restriction of the use of certain hazardous substances) restricting the use of six toxins from most electronic & electrical equipment.
- EU Directive 2002/72/EC relating to plastic materials and articles intended to come in contact with foodstuffs.
- EU Directive 2002/61/EC aryl amine breakdown products in azo dyes.
- EU Directive 67/548/EEC relating to the packaging of dangerous substances.
- FDA and The United States Code of Federal Regulations (CFR) - 21 CFR Parts 175-178 that regulate adhesives, components of coatings, paper and paperboard components, polymers and adjuvants and production aids.
- United States Environmental Protection Agency (USEPA) - Methods 606, 506-1 and 8061 regulating phthalates and adipates.



For chemical structures, formula and molecular weight, request catalog or visit our website.

PolyAdd ✔ Check™

We have listed the compounds by the most common uses. If you cannot find a particular compound, or are interested in a custom solvent, concentration, or a custom solution containing more that one compound please call our Technical Service Department for a quotation.

Solutions at 1000 µg/mL in Hexane, except where indicated
* Hexane:Acetone, -A Acetone, -T Toluene, -M Methanol, - DMSO

Accelerators

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Accelerator BBTS	N-(1,1-dimethylethyl)2-benzothiazolesulfenamide	95-31-8	PLAS-AC-003N	PLAS-AC-003S
Accelerator ETU-22 PM *	Ethylene thiourea	96-45-7	PLAS-AC-002N	PLAS-AC-002S
Accelerator EZ & EZ-SP	Zinc diethyldithiocarbamate	14324-55-1	PLAS-AC-006N	PLAS-AC-006S
Accelerator MBT, MBT/MG	2-Mercaptobenzothiazole	149-30-4	PLAS-AC-001N	PLAS-AC-001S
Activator OT Urea **	Urea	57-13-3	PLAS-AC-005N	PLAS-AC-005S-A
Cure-Rite® IBT	Tetraisobutylthiuram disulfide	3064-73-1	PLAS-AC-004N	PLAS-AC-004S

Antidegradants

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Ethanox® 314	1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	27676-62-6	PLAS-AX-084N	PLAS-AX-084S
Ethanox 703	2-,6-Di-tert-butyl-N-N-dimethylamino-p-cresol	88-27-7	PLAS-AX-085N	PLAS-AX-085S
Santoflex 77PD	N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine	3081-14-9	PLAS-AD-002N	PLAS-AD-002S
Santoflex IPPD *	N-phenyl-N'-propan-2-yl-benzene-1,4-diamine	101-72-4	PLAS-AD-003N	PLAS-AD-003S
Wingstay L	Butylated reaction product of p-cresol and dicyclopentadiene	68610-51-5	PLAS-AD-001N	PLAS-AD-001S

Antifoams

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
SF100	Dimethyl silicone fluid	9016-00-6	PLAS-AF-001N	PLAS-AF-001S

Antiozonants

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Antiozonant NIBUD	Nickel dibutyl dithiocarbamate	13927-77-0	PLAS-AZ-001N	PLAS-AZ-001S

Trade named products are usally technical mixtures.

Antioxidants

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Alkanox® P27	bis(2,4-Di-tert-butylphenyl)pentaerythritol diphosphate and magnesium aluminum hydroxy carbonate hydrate	26741-53-7 / 11097-59-9	PLAS-AX-032N	PLAS-AX-032S
Alkanox TNPP	Tris(mono-nonylphenyl) phosphite with up to 1% triisopropanol amine	26523-78-4	PLAS-AX-077N	PLAS-AX-077S
Antioxidant 60	2H-benzimidazole-2-thione, 1,3-di-hydro-4(or 5)-methyl	53988-10-6	PLAS-AX-019N	PLAS-AX-019S-M
Antioxidant S	Benzenamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	68411-46-1	PLAS-AX-057N	PLAS-AX-057S
Cyanox® 1212	Lauryl stearylthiopropionate	13103-52-1	PLAS-AX-047N	PLAS-AX-047S
Cyanox 1790	1,3,5-Tris(4-tert-butyl-3-hydroxy-2,6-dimethylbenzyl)-1,3,5-triazine-2,4,6-(1h, 3h,5h)-trione	40601-76-1	PLAS-AX-005N	PLAS-AX-005S
Cyanox 2246	2,2'-Methylene-bis-(4-methyl-6-tert-butyl-phenol)	119-47-1	PLAS-AX-013N	PLAS-AX-013S
Cyanox 425	2,2'-Methylene-bis-(4-ethyl-6-tert-butyl-phenol)	88-24-4	PLAS-AX-012N	PLAS-AX-012S
Cyanox LTDP	Dilaurylthiopropionate	123-28-4	PLAS-AX-041N	PLAS-AX-041S
Cyanox STDP	Distearylthiopropionate	693-36-7	PLAS-AX-044N	PLAS-AX-044S
Ethanox® 310	Pentaerythritol tetrakis (3-(3,5-di-t-butyl-4-hydroxyphenyl)propionate	6683-19-8	PLAS-AX-086N	PLAS-AX-086S
Ethanox 323	Nonylphenol disulfide oligomer		PLAS-AX-082N	PLAS-AX-082S
Ethanox 330	1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl) benzene	1709-70-2	PLAS-AX-021N	PLAS-AX-021S
Ethanox 376	3,5-Di-tert-butyl-4-hydroxyhydrocinnamic acid, octadecyl ester	2082-79-3	PLAS-AX-054N	PLAS-AX-054S
Ethanox 702	4,4'-Methylenebis(2,6-di-tert-butylphenol)	118-82-1	PLAS-AX-025N	PLAS-AX-025S
Ethaphos® 368	Tris(2,4-di-tert-butylphenyl) phosphite	31570-04-4	PLAS-AX-074N	PLAS-AX-074S
Irganox® 1035	Thiodiethylene bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamate)	41484-35-9	PLAS-AX-069N	PLAS-AX-069S
Irganox 1081	6,6'-Di-tert-butyl-2,2'-thiodi-p-cresol	90-66-4	PLAS-AX-080N	PLAS-AX-080S
Irganox 1098 *	N,N'-1,6-Hexanediyl bis[3,5-bis(1,1-dimethylethyl)-4-hydroxy-benzenepropanamide]	23128-74-7	PLAS-AX-050N	PLAS-AX-050S
Irganox 1425 WL	Ethyl 3,5-di-tert-butyl-4-hydroxybenzylphosphonate, calcium salt and polyethylene-wax mixture	65140-91-2 / 9002-88-4	PLAS-AX-079N	---------- ---
Irganox 245	Triethyleneglycol bis[3-(3'-tert-butyl-4'hydroxy-5'-methylphenol)propionate]	36443-68-2	PLAS-AX-070N	PLAS-AX-070S
Irganox 259	Hexamethylene bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	35074-77-2	PLAS-AX-045N	PLAS-AX-045S
Irganox 3114 FF	1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	27676-62-6	PLAS-AX-078N	PLAS-AX-078S
Irganox 3125 *	3,5-Di-tert-butyl-4-hydroxyhydrocinnamic ester with 1,3,5-tris[2-hydroxyethyl]-s-triazine-2,4,6[1H,3H,5H]-trione	34137-09-2	PLAS-AX-020N	PLAS-AX-020S
Irganox 565	2,4-bis(n-Octylthio)-6-(4-hydroxy-3,5-di-tert-butylanilino)-1,3,5-triazine	991-84-4	PLAS-AX-014N	PLAS-AX-014S
Irganox E 201	alpha-Tocopherol	10191-41-0	PLAS-AX-027N	PLAS-AX-027S
Irganox MD 1024 *	1,2-bis(3,5-Di-tert-butyl-4-hydroxyhydrocinnamoyl)hydrazide	32687-78-8	PLAS-AX-001N	PLAS-AX-001S
Isonox® 132	2,6-Di-tert-butyl-4-sec-butylphenol	17540-75-9	PLAS-AX-018N	PLAS-AX-018S
Isonox 232	2,6-Di-tert-butyl-4-nonylphenol	4306-88-1	PLAS-AX-063N	PLAS-AX-063S
Lowinox AH25	2,5-bis(1,1-Dimethylpropyl)-1,4-benzenediol	79-74-3	PLAS-AX-016N	PLAS-AX-016S
Lowinox CPL	Polymeric sterically hindered phenol	68610-51-5	PLAS-AX-059N	PLAS-AX-059S
Lowinox TBM-6	4,4'-Thiobis(2-tert-butyl-5-methylphenol)	96-69-5	PLAS-AX-024N	PLAS-AX-024S
Markstat® 60	Polyglycol ester		PLAS-AX-028N	PLAS-AX-028S
Naugard® 412S	beta-Laurylthiopropionate	29598-76-3	PLAS-AX-030N	PLAS-AX-030S
Naugard 445	4,4'-bis(alpha,alpha-Dimethylbenzyl)diphenylamine	10081-67-1	PLAS-AX-022N	PLAS-AX-022S
Naugard 956	Proprietary blend of primary and secondary antioxidants		PLAS-AX-060N	PLAS-AX-060S-T
Naugard A *	Acetone diphenylamine condensation products	68412-48-6	PLAS-AX-026N	PLAS-AX-026S
Naugard B-25	1:1 blend of Naugard® 10 and Naugard® 524	6683-19-8 / 31570-04-4	PLAS-AX-061N	PLAS-AX-061S
Naugard BHT	2,6-Di-tert-butyl-4-methylphenol	128-37-0	PLAS-AX-017N	PLAS-AX-017S
Naugard HM-22	Blend of phenolic primary and diphenylamine secondary antioxidants (Naugards 76 and 445)		PLAS-AX-033N	PLAS-AX-033S
Naugard J *	N,N'-Diphenyl-p-phenylenediamine	74-31-7	PLAS-AX-048N	PLAS-AX-048S
Naugard NBC	Nickel dibutyl dithiocarbamate	13927-77-0	PLAS-AX-051N	PLAS-AX-051S
Naugard PANA	N-Phenyl-1-naphthylamine	90-30-2	PLAS-AX-058N	PLAS-AX-058S
Naugard PHR	Tris(mono-nonylphenyl) phosphite with up to 1% triisopropanol amine	26523-78-4	PLAS-AX-076N	PLAS-AX-076S
Naugard PS-30	Benzenamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	68411-46-1	PLAS-AX-038N	PLAS-AX-038S
Naugard PS-35	Tris-nonyl phenyl phosphite		PLAS-AX-046N	PLAS-AX-046S
Naugard Q Extra	1,2-Dihydro-2,2,4-trimethylquinoline (polymerized)	26780-96-1	PLAS-AX-002N	PLAS-AX-002S
Naugard RM-51	Tris(mono-nonylphenyl)phosphite,2,2'-methylene bis (4-methyl-6-nonyl phenol)	26523-78-4	PLAS-AX-034N	PLAS-AX-034S
Naugard Super Q	1,2-Dihydro-2,2,4-trimethylquinoline (polymerized)	147-47-7	PLAS-AX-003N	PLAS-AX-003S
Naugard XL-1 *	2,2'-Oxamidobis[ethyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	70331-94-1	PLAS-AX-008N	PLAS-AX-008S
Santicizer® 278	Benzyl 3-isobutyrloxy-1-isopropyl-2,2-dimethylpropyl phthalate	16883-83-3	PLAS-AX-029N	PLAS-AX-029S
Ultranox® 626	bis(2,4-Di-tert-butylphenyl)pentaerythritol diphosphite	26741-53-7	PLAS-AX-031N	PLAS-AX-031S

Trade named products are usally technical mixtures.

Solutions at 1000 µg/mL in Hexane, except where indicated
* Hexane:Acetone, -A Acetone, -T Toluene, -M Methanol, - DMSO

Blowing Agents, Plasticizers

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Celogen® AZ	Carbamoyliminourea	123-77-3	PLAS-BA-002N	PLAS-BA-002S-DMSO
CPW-100	Chlorinated paraffin wax	63449-39-8	PLAS-BA-001N	PLAS-BA-001S

Coupling Agents

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Silquest® A-187	gamma-Glycidoxypropyltrimethoxysilane	2530-83-8	PLAS-CA-004N	PLAS-CA-004S
Silquest A-1100	gamma-Aminopropyltriethoxysilane	919-30-2	PLAS-CA-002N	PLAS-CA-002S
Silquest A-1102	gamma-Aminopropyltriethoxysilane (Tech grade)	919-30-2	PLAS-CA-003N	PLAS-CA-003S
Silquest A-1289	bis-(Triethoxysilypropyl)tetrasulfane	211519-85-6	PLAS-CA-001N	PLAS-CA-001S
Silquest A-137	Octyltriethoxysilane	2943-75-1	PLAS-CA-005N	PLAS-CA-005S
Silquest A-2171	Vinylmethyldimethoxysilane	16753-62-1	PLAS-CA-006N	PLAS-CA-006S

Cross-Linking Agents

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
F-300, F-1000, F-1500, F-2000, F-3000	Stearic acid	57-11-4	PLAS-CL-006N	PLAS-CL-006S
Perkacit® DPG *	N,N'-Diphenylguanidine	102-06-7	PLAS-CL-004N	PLAS-CL-004S
Perkacit MBT	2-Mercaptobenzothiazole	149-30-4	PLAS-CL-002N	PLAS-CL-002S
Perkacit MBTS	2,2'-Dithiobis(benzothiazole)	120-78-5	PLAS-CL-001N	PLAS-CL-001S
Perkacit NDBC	Nickel dibutyl dithiocarbamate	13927-77-0	PLAS-CL-005N	PLAS-CL-005S
Perkacit ZDEC	Zinc diethyldithiocarbamate	14324-55-1	PLAS-CL-007N	PLAS-CL-007S
Resimene® 3520	Hexamethoxy methyl melamine	3089-11-0	PLAS-CL-003N	PLAS-CL-003S

Flame Retardants (see PCB and PBDE section for complete listings)

Chemical Name	CAS No.	Matrix	Solution 1 mL
2,2',3,4,4',5',6-Heptabromodiphenyl ether	207122-16-5	50 µg/mL in Isooctane	BDE-183S
2,2',4,4'-Tetrabromodiphenyl ether	40088-47-9	50 µg/mL in Isooctane	BDE-047S
2,2',4,4',5-Pentabromodiphenyl ether	32534-81-9	50 µg/mL in Isooctane	BDE-099S
2,2',4,4',5,5'-Hexabromodiphenyl ether	36483-60-0	50 µg/mL in Isooctane	BDE-153S
2,2',4,4',5,6'-Hexabromodiphenyl ether	207122-15-4	50 µg/mL in Isooctane	BDE-154S
2,2',4,4',6-Pentabromodiphenyl ether	189084-64-8	50 µg/mL in Isooctane	BDE-100S
Aroclor® 1016 (Tech Mix)	12674-11-2	1000 µg/mL in Hexane	C-216S-H-10X
		50 mg	C-216N-50MG
Aroclor 1221 (Tech Mix)	11104-28-2	1000 µg/mL in Hexane	C-221S-H-10X
		50 mg	C-221N-50MG
Aroclor 1232 (Tech Mix)	11141-16-5	1000 µg/mL in Hexane	C-232S-H-10X
Aroclor 1242 (Tech Mix)	53469-21-9	1000 µg/mL in Hexane	C-242S-H-10X
		50 mg	C-242N-50MG
Aroclor 1248 (Tech Mix)	12672-29-6	1000 µg/mL in Hexane	C-248S-H-10X
		50 mg	C-248N-50MG
Aroclor 1254 (Tech Mix)	11097-69-1	1000 µg/mL in Hexane	C-254S-H-10X
		50 mg	C-254N-50MG
Aroclor 1260 (Tech Mix)	11096-82-5	1000 µg/mL in Hexane	C-260S-H-10X
		50 mg	C-260N-50MG
Aroclor 1262 (Tech Mix)	37324-23-5	1000 µg/mL in Hexane	C-262S-H-10X
		50 mg	C-262N-50MG
Aroclor 1268 (Tech Mix)	11100-14-4	1000 µg/mL in Hexane	C-298S-H-10X
Aroclor 5432 (Tech Mix)	63496-31-1	35 µg/mL in Toluene	T-432S
Aroclor 5442 (Tech Mix)	12642-23-8	35 µg/mL in Toluene	T-442S
Aroclor 5460 (Tech Mix)	11126-42-4	35 µg/mL in Toluene	T-440S
Aroclor 6050 (Tech Mix)		35 µg/mL in Toluene	T-6050S
Decabromodiphenyl ether	1163-19-5	50 µg/mL in Isooctane:Toluene	BDE-209S
Firemaster BP4A (4,4'-(1-methylethylidene) bis (2,6-dibromophenol))	79-94-7	100 µg/mL in Toluene	FRS-006S
		10 mg	FRS-006N
Halowax 1000 (26 %Cl)	58718-66-4	100 µg/mL in Methanol	N-1000S
Halowax 1001 (50 %Cl)	58718-67-5	100 µg/mL in Methanol	N-1001S
Halowax 1013 (56 %Cl)	1321-64-8	100 µg/mL in Methanol	N-1013S
Halowax 1014 (62 %Cl)	1335-87-1	100 µg/mL in Methanol	N-1014S
Halowax 1051 (70 %Cl)	2234-13-1	100 µg/mL in Methanol	N-1051S
Halowax 1099 (52 %Cl)	39450-05-0	100 µg/mL in Methanol	N-1099S
m-Terphenyl	92-06-8	100 mg	T-002N
o-Terphenyl	84-15-1	100 mg	T-001N
p-Terphenyl	92-94-4	100 mg	T-003N
Tetradecachloro-*m*-terphenyl		35 µg/mL in Toluene	T-005S
Tetradecachloro-*o*-terphenyl		35 µg/mL in Toluene	T-004S
Tetradecachloro-*p*-terphenyl		35 µg/mL in Toluene	T-006S

Plastic Additives

Solutions at 1000 µg/mL in Hexane, except where indicated
* Hexane:Acetone, -A Acetone, -T Toluene, -M Methanol, - DMSO

Plasticizers

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Benzoflex® 2-45	Diethylene glycol, dibenzoate	120-55-8	PLAS-PL-015N	PLAS-PL-015S
Bisphenol A	4,4'-Dihydroxy-2,2'-diphenylpropane	80-05-7		M-1626-01S
Celogen® SD-125	50% Azodicarbonamide in a phthalate plasticizer		PLAS-PL-009N	PLAS-PL-009S
Citroflex® 2	2-Hydroxy-1,2,3-propanetricarboxylic acid, triethyl ester	77-93-0	PLAS-PL-028N	PLAS-PL-028S
Citroflex 4	2-Hydroxy-1,2,3-propanetricarboxylic acid, tributyl ester	77-94-1	PLAS-PL-030N	PLAS-PL-030S
Citroflex A-2	2-(Acetyloxy)-1,2,3-propanetricarboxylic acid, triethyl ester	77-89-4	PLAS-PL-001N	PLAS-PL-001S
Citroflex A-4	2-Acetoxy-1,2,3-propanetricarboxylic acid, tributyl ester	77-90-7	PLAS-PL-002N	PLAS-PL-002S
Citroflex B-6	n-Butyltri-n-hexyl citrate	82469-79-2	PLAS-PL-025N	PLAS-PL-025S
Dibutyl Phthalate		84-74-2	PLAS-PL-013N	PLAS-PL-013S
Dioctyl Phthalate (DOP)		117-81-7	PLAS-PL-019N	PLAS-PL-019S
Hercoflex® 900	1,3-Isobenzofurandione, polymer with 2,2'-(1,2-ethanediylbis(oxy)) bis(ethanol), benzoate	68186-30-1	PLAS-PL-038N	PLAS-PL-038S
Hi-Point 90 (in DMP)	2-Butanone peroxide (in DMP)	1338-23-4	PLAS-PL-023N-R1	PLAS-PL-023S-R1
Hi-Point® PD-1	Methyl ethyl ketone peroxide solution	1338-23-4	PLAS-PL-024N	PLAS-PL-024S
Jayflex® 77	Diisoheptyl phthalate	71888-89-6	PLAS-PL-017N	PLAS-PL-017S
Jayflex DIDP Plasticizer	Diisodecyl phthalate	68515-49-1	PLAS-PL-016N	PLAS-PL-016S
Jayflex DINP Plasticizer	Diisononyl phthalate	68515-48-0	PLAS-PL-018N	PLAS-PL-018S
Jayflex DTDP plasticizer	Diisotridecyl phthalate	68515-47-9	PLAS-PL-020N	PLAS-PL-020S
Jayflex L11P-E plasticizer	Diundecyl phthalate	3648-20-2	PLAS-PL-021N	PLAS-PL-021S
Jayflex TINTM plasticizer	Triisononyl trimellitate	53894-23-8	PLAS-PL-029N	PLAS-PL-029S
Laurex®	Zinc salt of lauric and related fatty acids		PLAS-PL-032N	PLAS-PL-032S
Markstat® 51	Poly(ethylene glycol) monolaurate	9004-81-3	PLAS-PL-003N	PLAS-PL-003S
Morflex® 150	Dicyclohexyl phthalate	84-61-7	PLAS-PL-014N	PLAS-PL-014S
Morflex 190	Butylphthalyl butyl glycolate	85-70-1	PLAS-PL-008N	PLAS-PL-008S
Morflex 560	Tri-n-hexyl trimellitate	1528-49-0	PLAS-PL-031N	PLAS-PL-031S
Morflex x-1125	Ditridecyl phthalate	119-06-2	PLAS-PL-033N	PLAS-PL-033S
Paraplex® G-30	Proprietary dibasic acid polyester mixture		PLAS-PL-027N	PLAS-PL-027S
Plasthall® ESO	Epoxidized soybean oil	8013-07-8	PLAS-PL-035N	PLAS-PL-035S
Polycizer® Butyl Oleate	Butyl oleate	142-77-8	PLAS-PL-007N	PLAS-PL-007S
Polycizer DP 500	Dipropylene glycol dibenzoate	27138-31-4	PLAS-PL-011N	PLAS-PL-011S
Santicizer® 141	2-Ethylhexyldiphenyl phosphate	1241-94-7	PLAS-PL-026N	PLAS-PL-026S
Santicizer 148	Mixture: isodecyldiphenyl phosphate (80-90%) / diisodecyl phenyl phosphate / triphenyl phosphate	29761-21-5	PLAS-PL-022N	PLAS-PL-022S
Santicizer 160	Benzyl butyl phthalate	85-68-7	PLAS-PL-004N	PLAS-PL-004S
Santicizer 261	Benzyl phthalate	68515-40-2	PLAS-PL-005N	PLAS-PL-005S
Vinsol® powder			PLAS-PL-037N	PLAS-PL-037S
Vinsol resin	Gum rosin	8050-09-7	PLAS-PL-036N	PLAS-PL-036S

Processing Aids

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Kemamide® E ultra	Erucamide	112-84-5	PLAS-PA-001N	PLAS-PA-001S

Retarders

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Retarder AK *	Phthalic anhydride	85-44-9	PLAS-RT-001N	PLAS-RT-001S

Stearates

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Stearic Acid RG (rubber grade)	Stearic acid	57-11-4	PLAS-ST-001N	PLAS-ST-001S
Stearic Acid TP	Stearic acid	57-11-4	PLAS-ST-002N	PLAS-ST-002S

UV Stabilizers

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Tinuvin® PED	2-(-Hydroxy-5-methylphenyl)benzo triazole	2440-22-4	PLAS-UV-005N	PLAS-UV-005S
Uvinul® 3000	2,4-Dihydroxybenzophenone	131-56-6	PLAS-UV-001N	PLAS-UV-001S
Uvinul 3008	2-Hydroxy-4-octyloxybenzophenone	1843-05-6	PLAS-UV-002N	PLAS-UV-002S
Uvinul 3040	2-Hydroxy-4-methoxybenzophenone	131-57-7	PLAS-UV-003N	PLAS-UV-003S
Uvinul 3049	2,2-Dihydroxy-4,4-dimethoxybenzophenone	131-54-4	PLAS-UV-004N	PLAS-UV-004S

Vegetable Oils

Trade Name	Chemical Name	CAS No.	Neat 50 mg	Solution 1 mL
Akrofax A	Vulcanized vegetable oil		PLAS-VA-001N	PLAS-VA-001S
Akrofax B	Vulcanized vegetable oil		PLAS-VA-002N	PLAS-VA-002S

Trade named products are usally technical mixtures.

Deuterated Phthalates

Chemical Name	CAS No.	Neat 5 mg Each	Solution 1 mL
Dibenzyl phthalate-d_4		PHTH-D4-001N	PHTH-D4-001S
Di-n-butyl phthalate-d_4	93952-11-5	PHTH-D4-002N	PHTH-D4-002S
Di-iso-butyl phthalate-3,4,5,6-d_4	358730-88-8	PHTH-D4-003N	PHTH-D4-003S
Dicyclohexyl phthalate-3,4,5,6-d_4	358731-25-6	PHTH-D4-004N	PHTH-D4-004S
Diethyl phthalate-3,4,5,6-d_4	93952-12-6	PHTH-D4-005N	PHTH-D4-005S
Di-n-hexyl phthalate-3,4,5,6-d_4		PHTH-D4-006N	PHTH-D4-006S
Dimethyl phthalate-3,4,5,6-d_4	93951-89-4	PHTH-D4-007N	PHTH-D4-007S
Di-n-octyl phthalate-3,4,5,6-d_4	93952-13-7	PHTH-D4-008N	PHTH-D4-008S
Di-n-pentyl phthalate-3,4,5,6-d_4	358730-89-9	PHTH-D4-009N	PHTH-D4-009S
Di-n-pentyl phthalate-3,4,5,6-d_4	358731-29-0	PHTH-D4-010N	PHTH-D4-010S
Di-n-pentyl phthalate-3,4,5,6-d_4	93951-87-2	PHTH-D4-011N	PHTH-D4-011S
Sets of Deuterated Phthalates		**PHTH-D4N-SET**	**PHTH-D4S-SET**
		11 x 5 mg	**11 x 1 mL**

Technical Mixtures

When a compound has a purity identified as "Technical" or "Tech Mixture" it means that the standard is not comprised of just one main compound. These are mixtures of multiple chemicals that make up a particular product and every chemical in the mix are components that define the product. The analysis considers all compounds in the product. Aroclors, flame retardants, PBDE technical grade, halowaxes, and some allergens, plastic additives, and dyes may be classified as "Technical Mixtures."

ASTM Method D6042-92 Plastic Packaging Testing Standards

This method is used by both pharmaceutical companies and plastics manufacturers. The test ensures the quality of the plastic product during the manufacturing process, and as delivered to the pharmaceutical customer. Compounds are often added to the method's analyte list by pharmaceutical companies.

Calibration Mix

PLAS-CAL-001 **1 x 1 mL**
PLAS-CAL-001-PAK ***SAVE*** **5 x 1 mL**
50 µg/mL each in Isopropanol 7 comps.

BHT
Erucamide Slip
Vitamin E
Irgafor 128
Irganox 3114
Irganox 1010
Irganox 1076

Internal Standard Mix

PLAS-IS-001 **1 x 1 mL**
PLAS-IS-001-PAK ***SAVE*** **5 x 1 mL**
51.8 µg/mL in Isopropanol

Tinuvin P

Expanded List of Additives

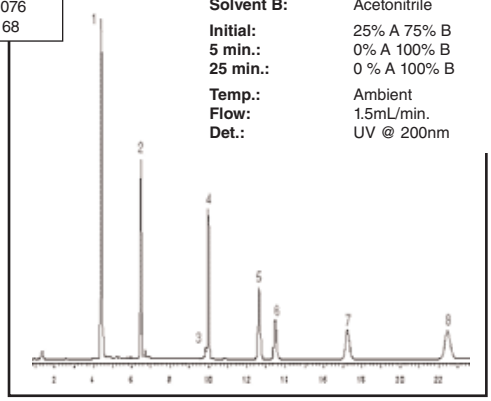
Each at 50 µg/mL in Isopropanol, except Ethanox 703 at 1000 µg/mL

Ultranox 626	PLAS-CAL-002-1	1 mL	Ethanox 702	PLAS-CAL-002-5	1 mL
Santanox R	PLAS-CAL-002-2	1 mL	Ethanox 703	PLAS-CAL-002-6	1 mL
Ethanox 330	PLAS-CAL-002-3	1 mL	Irganox 1035	PLAS-CAL-002-7	1 mL
Ethanox 323	PLAS-CAL-002-4	1 mL			

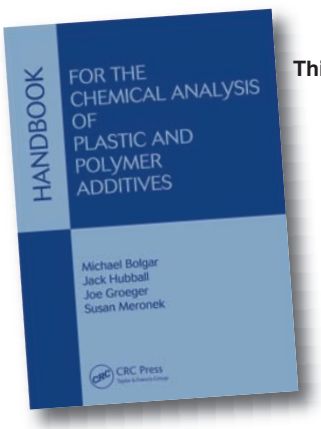
Component list:
1. Tinuvin® P
2. BHT
3. Erucamide
4. Irganox® 3114
5. Irganox 1010
6. Vitamin E
7. Irganox 1076
8. Irgafos® 168

Analysis Conditions:
10µL injection @ 50ppm each component, ASTM D6042-96 calibration mix and IS mix
Solvent: Isopropanol
Column: 150 X 4.6mm Ultra C8, 5µm, 100Å

Mobile phase:	Linear gradient
Solvent A:	Water
Solvent B:	Acetonitrile
Initial:	25% A 75% B
5 min.:	0% A 100% B
25 min.:	0 % A 100% B
Temp.:	Ambient
Flow:	1.5mL/min.
Det.:	UV @ 200nm



The figure shows the separation of the compounds on the method's analyte list, as analyzed by our HPLC specialists. The primary calibration standard mixture contains the common antioxidants and slips listed in ASTM D6042-96.



BOOK-PLAS-001

The perfect companion for your analysis!

This CRC Press reference book contains the compounds in this catalog, with important reference data to aid in testing and compliance.

Each Compound has:
- Chemical Information
- Structure
- CAS Number (where applicable)
- RTECS Number (where available)
- Formula
- Molecular Weight
- IUPAC Name, other common names and some popular brand names
- Physical Properties
- Appearance
- Melting and Boiling Points
- Stability
- Solubilities in several common solvents
- Other Important Information
- Application
- Regulatory
- Environmental Impact
- Point of Release
- Toxicological Data
- Analytical Data
- Mass Spectrum with key Ions tabulated
- Chromatogram with conditions

As well as information to help with real world examples, tips for analysis in challenging matrices, and much, much more.