

Plasticizers Phthalates and Adipates



Phthalate and adipate esters are widely used as surfactants and in food and personal care products as plasticizers. Phthalates and adipates are found in food as a result of leakage into food containers. Chiron offers a wide range of analytically pure deuterated and native phthalates and adipates, as well as mixes. Custom made mixes are available on request.

Metabolites: Phthalate biomarkers

It has been shown that dialkylphthalates are metabolized in the body to endocrine-active monoalkylphthalates, and appears to be linked with the prevalence of abdominal obesity and insulin resistance in men.

Ref.: Stahlhet et al., Environ. Health Prospect. Doi:10.1289/ehp.9882 (<http://dx.doi.org/>) March 2007.

Phthalates and adipates

	Phthalates		
	Deuterated phthalates		
2478.10-100-IO	Dimethyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2892.12-K-IO	Diethyl phthalate-3,4,5,6-d4		1000µg/mL in isooctane, 1 mL
3123.16-100-IO	Di- <i>iso</i> -butyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2479.16-100-IO	Di- <i>n</i> -butyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2479.16-100-IO	Di- <i>n</i> -butyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2893.18-100-IO	Di- <i>n</i> -pentyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2893.18-100-HE	Di- <i>n</i> -pentyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2893.18-K-IO	Di- <i>n</i> -pentyl phthalate-3,4,5,6-d4		1000 µg/mL in isooctane, 1 mL
3125.18-100-IO	Benzyl- <i>n</i> -butyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2361.24-100-IO	Di- <i>n</i> -octyl phthalate-3,4,5,6-d4		100 µg/mL in isooctane, 1 mL
2894.24-K-IO	Bis(2-ethylhexyl) phthalate-3,4,5,6-d4		1000 µg/mL in isooctane, 1 mL
	Monoalkylphthalates (metabolites)		
3805. 9-K-IO	Monomethyl phthalate		1000 µg/mL in isooctane, 1 mL
3806.10-K-IO	Monoethyl phthalate		1000 µg/mL in isooctane, 1 mL
3807. 12-K-IO	Monobutyl phthalate		1000 µg/mL in isooctane, 1 mL
3808.15-K-MX	Monobenzyl phthalate		1000 µg/mL in dichloromethane/cyclohexane, 1 mL
3590.15-K-IO	Mono- <i>n</i> -hexyl phthalate		1000 µg/mL in isooctane, 1 mL
8344.35-K-IO	Monocholesteryl phthalate		1000 µg/mL in isooctane, 1 mL
3809. 16-K-IO	Mono(2-ethylhexyl) phthalate		1000 µg/mL in isooctane, 1 mL
3962.7-KIT	Monoalkyl phthalate Kit		
	Dialkyl phthalates		
2094.10-K-IO	Dimethyl phthalate		1000 µg/mL in isooctane, 1 mL
2094.10-100MG	Dimethyl phthalate		10 or 100 mg neat
1225.12-K-IO	Diethyl phthalate		1000 µg/mL in isooctane, 1 mL or 10 mg neat
2102.16-100-NO	Di- <i>iso</i> -butyl phthalate		100 mg/mL in nonane, 1 mL
2102.16-K-IO	Di- <i>iso</i> -butyl phthalate		1000 µg/mL in isooctane, 1 mL



2102.16-100MG	Di- <i>iso</i> -butyl phthalate		10 or 100 mg neat
1226.16-K-IO	Di- <i>n</i> -butyl phthalate	DBP	1000 µg/mL in isooctane, 1 mL
1226.16-100MG	Di- <i>n</i> -butyl phthalate	DBP	10 or 100 mg neat
8537.16-100-IO	<i>n</i> -Butyl <i>iso</i> -butylphthalate	BIBP	100 µg/mL in isooctane, 1 mL
8537.16-100MG	<i>n</i> -Butyl <i>iso</i> -butylphthalate	BIBP	100 mg or 1 g neat
2097.14-K-IO	Bis(2-methoxyethyl) phthalate		1000 µg/mL in isooctane, 1 mL
2097.14-100MG	Bis(2-methoxyethyl) phthalate		10 or 100 mg neat
8425.18-K-IO	Diisopentylphthalate (diisoamylphthalate)	DIPP	1000 µg/mL in isooctane, 1 mL
8425.18-1G	Diisopentylphthalate (diisoamylphthalate)	DIPP	1000 µg/mL in isooctane, 1 mL or neat
2099.18-K-IO	Di- <i>n</i> -pentylphthalate		1000 µg/mL in isooctane, 1 mL
2099.18-100MG	Di- <i>n</i> -pentylphthalate		10 or 100 mg neat
8539.18-100-IO	<i>n</i> -Pentyl <i>iso</i> -pentylphthalate		100 µg/mL in isooctane, 1 mL
8604.18-100MG	<i>n</i> -Pentyl <i>iso</i> -pentylphthalate		100 mg neat
	(50% in mixture with 8425.18 and 2099.18)		
2096.16-K-IO	Bis(2-ethoxyethyl) phthalate		1000 µg/mL in isooctane, 1 mL
2096.16-100MG	Bis(2-ethoxyethyl) phthalate		100 mg neat
1227.19-K-IO	Butylbenzyl phthalate	BBP	1000 µg/mL in isooctane, 1 mL or 10 mg neat
2055.20-100-HX	Diphenyl isophthalate		100 µg/mL in hexane, 1 mL
2056.20-100-HX	Diphenyl phthalate		100 µg/mL in hexane, 1 mL
2100.20-K-IO	Dicyclohexyl phthalate		1000 µg/mL in isooctane, 1 mL
2100.20-100MG	Dicyclohexyl phthalate		10 or 100 mg neat
2098.20-K-IO	Bis(4-methyl-2-pentyl) phthalate		1000 µg/mL in isooctane, 1 mL
2098.20-100MG	Bis(4-methyl-2-pentyl) phthalate		10 or 100 mg neat
2101.20-K-IO	Di- <i>n</i> -hexyl phthalate		1000 µg/mL in isooctane, 1 mL
2101.20-100MG	Di- <i>n</i> -hexyl phthalate		10 or 100 mg neat
2054.22-100-HX	Dibenzyl phthalate		100 µg/mL in hexane, 1 mL
2103.22-K-IO	Hexyl 2-ethylhexyl phthalate		1000 µg/mL in isooctane, 1 mL
2103.22-100MG	Hexyl 2-ethylhexyl phthalate		10 or 100 mg neat
2095.20-K-IO	Bis(2- <i>n</i> -butoxyethyl) phthalate		1000 µg/mL in isooctane, 1 mL
2095.20-100MG	Bis(2- <i>n</i> -butoxyethyl) phthalate		10 or 100 mg neat
1224.24-K-IO	Bis(2-ethylhexyl)phthalate	DEHP	1000 µg/mL in isooctane, 1 mL
8016.24-K-IO	Bis(2-ethylhexyl) isophthalate		1000 µg/mL in isooctane, 1 mL or 10 mg neat
8016.24-100MG	Bis(2-ethylhexyl) isophthalate		10 or 100 mg neat
1223.24-K-IO	Di- <i>n</i> -octyl phthalate	DNOP	1000 µg/mL in isooctane, 1 mL
1223.24-100MG	Di- <i>n</i> -octyl phthalate	DNOP	10 or 100 mg neat
1229.26-K-IO	Di- <i>iso</i> -nonyl phthalate (isomer mixture)	DINP	1000 µg/mL in isooctane, 1 mL
1229.26-100MG	Di- <i>iso</i> -nonyl phthalate (isomer mixture)	DINP	10 or 100 mg neat
2110.26-K-IO	Di- <i>n</i> -nonyl phthalate		1000 µg/mL in isooctane, 1 mL
2110.26-100MG	Di- <i>n</i> -nonyl phthalate		10 or 100 mg neat
3049.28-K-IO	Di- <i>iso</i> -decyl phthalate	DIDP	1000 µg/mL in isooctane, 1 mL
3049.28-100MG	Di- <i>iso</i> -decyl phthalate	DIDP	10 or 100 mg neat
3126.26-KIT	Mono- and diphtalate Kit (Also available as solutions 1000µg/mL in isooctane)		
	Adipates		
	Deuterated adipates		
2276.22-K-IO	Bis(2-ethylhexyl) adipate-d8		1000µg/mL
	Dialkyladipates		
1228.22-K-IO	Bis(2-ethylhexyl) adipate	BEHA	1000 µg/mL in isooctane, 1 mL or 10 mg neat



2212.22-K-IO	Di- <i>n</i> -octyl adipate		1000 µg/mL in isooctane, 1 mL
2213.22-K-IO	Di- <i>iso</i> -octyl adipate		1000 µg/mL in isooctane, 1 mL
2214.24-K-IO	Di- <i>n</i> -nonyl adipate		1000 µg/mL in isooctane, 1 mL
2218.24-K-IO	Di- <i>iso</i> -nonyl adipate		1000 µg/mL in isooctane, 1 mL
3127.5-KIT	Adipate Kit		
1919.31-KIT	Phthalate and adipate Kit		
	Sebacates		
8387.18-K-IO	Di- <i>n</i> -butyl sebacate		1000 µg/mL in isooctane, 1 mL

Mixtures

Surfactants Mixture 1

S-4002

7 Analytes, each 1 mg/mL in isooctane, 10 x 1 mL or 10 mL

1225,12	Diethyl phthalate	DEP
1228,22	Bis(2-ethylhexyl) adipate	BEHA
1223,24	Di- <i>n</i> -octyl phthalate	DNOP
1227,19	Benzyl butyl phthalate	BBP
1224,24	Bis(2-ethylhexyl) phthalate	BEHP
1229,26	Diisononyl phthalate	DINP
1226,16	Di- <i>n</i> -butyl phthalate	DBP

Surfactant Mixture 2

S-4074

Each 0.1mg/mL in toluene, 1 x 5 mL

1224,24	Bis(2-ethylhexyl) phthalate	BEHP
1223,24	Di- <i>n</i> -octyl phthalate	DNOP

EPA 606 Phthalate Esters in Waste Water by GC-ECD

S-4233-2K-HX

2000 µg/mL in hexane, 5 x 1 mL or 5 mL

S-4233-2K-5HX

1224.24	Bis(2-ethylhexyl) phthalate	BEHP
1227.19	Benzyl butyl phthalate	BBP
1226.16	Di- <i>n</i> -butyl phthalate	DBP
1225.12	Diethyl phthalate	DEP
2094.10	Dimethyl phthalate	
1223.24	Di- <i>n</i> -octyl phthalate	DNOP

EPA 606 Control Sample Mixture

S-4234-ASS-AC

6 Analytes in acetone, 5 x 1 mL or 5 mL

S-4234-ASS-5AC

1224.4	Bis(2-ethylhexyl) phthalate	BEHP	500 µL/mL
1227.19	Benzyl butyl phthalate	BBP	100 µL/mL
1226.16	Di- <i>n</i> -butyl phthalate	DBP	250 µL/mL
1225.12	Diethyl phthalate	DEP	250 µL/mL
2094.10	Dimethyl phthalate		250 µL/mL
1223.24	Di- <i>n</i> -octyl phthalate	DNOP	500 µL/m

