



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		
	<i>Deuterium labelled phthalates</i>		
2478.10-100-IO	Dimethyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 1mL
2892.12-K-IO	Diethyl phthalate-3,4,5,6-d4		1000µg/mL in isooctane, 1mL
3123.16-100-IOx5	Di-iso-butyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 5x1mL
2479.16-100-IO	Di-n-butyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 1mL
2479.16-100-IOx5	Di-n-butyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 5x1mL
2893.18-100-IO	Di-n-pentyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 1mL
2893.18-100-HE	Di-n-pentyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 1mL
2893.18-K-IO	Di-n-pentyl phthalate-3,4,5,6-d4		1000µg/mL in isooctane, 1mL
3125.18-100-IOx5	Benzyl-n-butyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 5x1mL
2361.24-100-IOx5	Di-n-octyl phthalate-3,4,5,6-d4		100µg/mL in isooctane, 5x1mL
2894.24-K-IO	Bis(2-ethylhexyl) phthalate-3,4,5,6-d4		1000µg/mL in isooctane, 1mL
	Monophthalate esters (metabolites)		
3805. 9-K-IO	Monomethyl phthalate		1000µg/mL in isooctane, 1mL
3806.10-K-IO	Monoethyl phthalate		1000µg/mL in isooctane, 1mL
3807. 12-K-IO	Mono-n-butyl phthalate		1000µg/mL in isooctane, 1mL
8633.12-K-IO	Mono-iso-butyl phthalate		1000µg/mL in isooctane, 1mL
3808.15-K-MX	Monobenzyl phthalate		1000µg/mL in DCM/CY, 1mL
3590.15-K-IO	Mono-n-hexyl phthalate		1000µg/mL in isooctane, 1mL
8344.35-K-IO	Moncholesteryl phthalate		1000µg/mL in isooctane, 1mL
3809. 16-K-IO	Mono(2-ethylhexyl) phthalate		1000µg/mL in isooctane, 1mL
3962.4-KIT	Monoalkyl phthalate Kit (3805.9+3807.10+3808.15+3809.16)		
3962.7-KIT	Monoalkyl phthalate Kit		
	Diphthalate ester		
2094.10-K-IO	Dimethyl phthalate		1000µg/mL in isooctane, 1mL
1225.12-K-IO	Diethyl phthalate		1000µg/mL in isooctane, 1mL
2102.16-K-IO	Di-iso-butyl phthalate	DiBP	1000µg/mL in isooctane, 1mL
1226.16-K-IO	Di-n-butyl phthalate	DBP	1000µg/mL in isooctane, 1mL
8537.16-100-IO	n-Butyl iso-butyl phthalate	BiBP	100µg/mL in isooctane, 1mL
8720.16-100MG	n-Butyl iso-butyl phthalate	BiBP	neat, 100mg
	(50% in mixture with 2102.16 and 1226.16)		



2097.14-K-IO	Bis(2-methoxyethyl) phthalate		1000µg/mL in isooctane, 1mL
8425.18-K-IO	Diisopentyl phthalate (diisoamyl phthalate)	DiPP	1000µg/mL in isooctane, 1mL
2099.18-K-IO	Di-n-pentyl phthalate (Diamylphthalate)		1000µg/mL in isooctane, 1mL
8539.18-100-IO	n-Pentyl iso-pentyl phthalate		100µg/mL in isooctane, 1mL
8604.16-100MG	n-Pentyl iso-pentyl phthalate		neat 100mg
	(50% in mixture with 2099.18.16 and 8425.18)		
2096.16-K-IO	Bis(2-ethoxyethyl) phthalate		1000µg/mL in isooctane, 1mL
1227.19-K-IO	Butylbenzyl phthalate	BBP	1000µg/mL in isooctane, 1mL
2056.20-100-HX	Diphenyl phthalate		100µg/mL in hexane, 1mL
2100.20-K-IO	Dicyclohexyl phthalate		1000µg/mL in isooctane, 1mL
2095.20-K-IO	Bis(2-n-butoxyethyl) phthalate		1000µg/mL in isooctane, 1mL
2098.20-K-IO	Bis(4-methyl-2-pentyl) phthalate		1000µg/mL in isooctane, 1mL
8733.20-K-IO	Butyl octyl phthalate		1000µg/mL in isooctane, 1mL
2101.20-K-IO	Di-n-hexyl phthalate		1000µg/mL in isooctane, 1mL
2054.22-100-HX	Dibenzyl phthalate		100µg/mL in hexane, 1mL
8721.22-K-IO	Di-n-heptyl phthalate		1000µg/mL in isooctane, 1mL
2103.22-K-IO	Hexyl 2-ethylhexyl phthalate		1000µg/mL in isooctane, 1mL
1224.24-K-IO	Bis(2-ethylhexyl) phthalate	DEHP	1000µg/mL in isooctane, 1mL
1223.24-K-IO	Di-n-octyl phthalate	DNOP	1000µg/mL in isooctane, 1mL
1229.26-K-IO	Di-iso-nonyl phthalate (isomer mixture)	DiNP	1000µg/mL in isooctane, 1mL
2110.26-K-IO	Di-n-nonyl phthalate		1000µg/mL in isooctane, 1mL
3049.28-K-IO	Di-iso-decyl phthalate	DIDP	1000µg/mL in isooctane, 1mL
8732.30-K-IO	Di-n-undecyl phthalate		1000µg/mL in isooctane, 1mL
3126.26-Solutions-KIT	Mono- and diphthalate Solutions Kit		
3126.26-Neat-KIT	Mono- and diphthalate Neat Kit (Not including 8537 and 8539)		
	Isophthalates		
2055.20-100-HX	Diphenyl isophthalate		100µg/mL in hexane, 1mL
8016.24-K-IO	Bis(2-ethylhexyl) isophthalate		1000µg/mL in isooctane, 1mL
	Terephthalates		
8729.9-K-IO	Monomethyl terephthalate		1000µg/mL in isooctane, 1mL
8722.10-K-IO	Dimethyl terephthalate		1000µg/mL in isooctane, 1mL
8730.12-K-IO	Diethyl terephthalate		1000µg/mL in isooctane, 1mL
8731.22-K-IO	Bis(2-ethylhexyl) terephthalate		1000µg/mL in isooctane, 1mL
	Adipates (linear C6-dicarboxylic esters)		
	Deuterium labelled adipates		
2276.22-K-IO	Bis(2-ethylhexyl) adipate-d8		1000µg/mL in isooctane, 1mL
	Monoadipate esters		
8727.7-K-IO	Monomethyl adipate		1000µg/mL in isooctane, 1mL
	Diadipate esters		
8724.8-K-IO	Dimethyl adipate		1000µg/mL in isooctane, 1mL
8725.10-K-IO	Diethyl adipate		1000µg/mL in isooctane, 1mL
8728.12-K-IO	Bis(2-mthoxyethyl) adipate		1000µg/mL in isooctane, 1mL
8726.12-K-IO	Dipropyl adipate		1000µg/mL in isooctane, 1mL
8729.14.K-IO	Bis(2-ethoxyethyl) adipate		1000µg/mL in isooctane, 1mL
1228.22-K-IO	Bis(2-ethylhexyl) adipate	BEHA	1000µg/mL in isooctane, 1mL
2212.22-K-IO	Di-n-octyl adipate		1000µg/mL in isooctane, 1mL
2213.22-K-IO	Di-iso-octyl adipate		1000µg/mL in isooctane, 1mL
2214.24-K-IO	Di-n-nonyl adipate		1000µg/mL in isooctane, 1mL
2218.24-K-IO	Di-iso-nonyl adipate		1000µg/mL in isooctane, 1mL
3127.5-KIT	Adipate Kit		
1919.31-KIT	Phthalate and adipate Kit		



	Sebacates (linear C10-dicarboxylic esters)		
8723.12-K-IO	Dimethyl sebacate		1000µg/mL in isooctane, 1mL
8388.14-K-IO	Diethyl sebacate		1000µg/mL in isooctane, 1mL
8387.18-K-IO	Di-n-butyl sebacate		1000µg/mL in isooctane, 1mL
8724.26-K-IO	Bis(2-ethylhexyl) sebacate		1000µg/mL in isooctane, 1mL

Neat Compounds: Most of the above compounds are also available in neat form. Please inquire

Custom solutions: Please inquire for custom solution of the above plasticizers. Please inquire if you have need for others.

Other labelled plasticizers are available upon request (deuterium or ¹³C)

Standard Mixtures

Surfactants Mixture 1

S-4002

7 Analytes, each 1000µg/mL in isooctane, 10x1mL or 10mL

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

Surfactant Mixture 2

S-4074

Each 100µg/mL in toluene, 1x5mL

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

EPA 606 Phthalate Esters in Waste Water by GC-ECD

S-4233-2K-HX

2000µg/mL in hexane, 5x1mL or 5mL

S-4233-2K-5HX

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

EPA 606 Control Sample Mixture

S-4234-ASS-AC

6 Analytes in acetone, 5x1mL or 5mL

S-4234-ASS-5AC

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