

## Biomarker Focus 50 - Mixed phthalates

### Butyl isobutyl phthalate, Pentyl isopentyl phthalate, Butyl benzyl phthalate

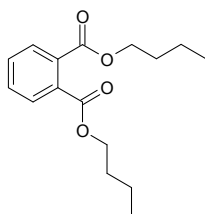
Certain phthalates are now listed on the CANDIDATE LIST OF SUBSTANCES OF VERY HIGH CONCERN FOR AUTHORIZATION by ECHA, the European Chemicals Agency:

Dibutyl phthalate  
Diisobutyl phthalate  
Benzyl butyl phthalate  
Bis(2-ethylhexyl) phthalate  
Bis(2-methoxyethyl)phthalate

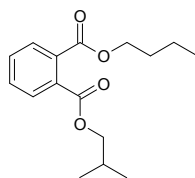


UNIQUE in-house proprietary technology enables Chiron to offer pure mixed phthalate-esters in sufficient quantities for toxicological and analytical purposes. In contrary to traditional synthesis methods where transesterification is a problem, the new method enables us to synthesize these esters in pure separated isomeric forms.

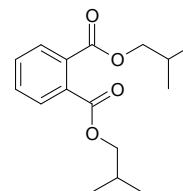
#### Butyl- / Isobutyl phthalates



1226.16 Di-*n*-butyl phthalate



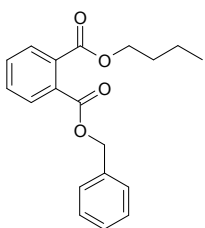
8537.16 *n*-Butyl *iso*-butyl phthalate



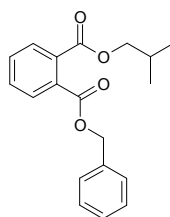
2102.16 Di-*iso*-butyl phthalate

9361.3 Butyl- /Isobutyl phthalate Kit (1226.16 + 8537.16 + 2102.16)

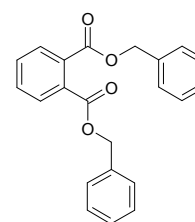
#### Butyl- / Benzyl phthalates



1227.19 *n*-Butylbenzyl phthalate



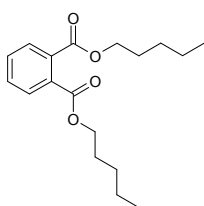
9360.19 *iso*-butyl benzyl phthalate



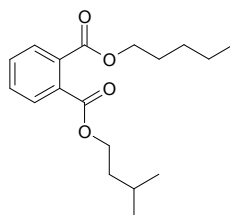
2054.22 Dibenzyl phthalate

9363.3 Butyl- /Benzyl phthalate Kit (1227.19 + 9360.19 + 2054.22)

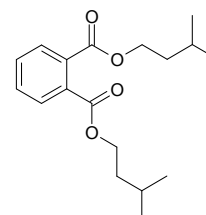
#### Pentyl- / Isopentyl phthalates



2099.18 Di-*n*-pentyl phthalate



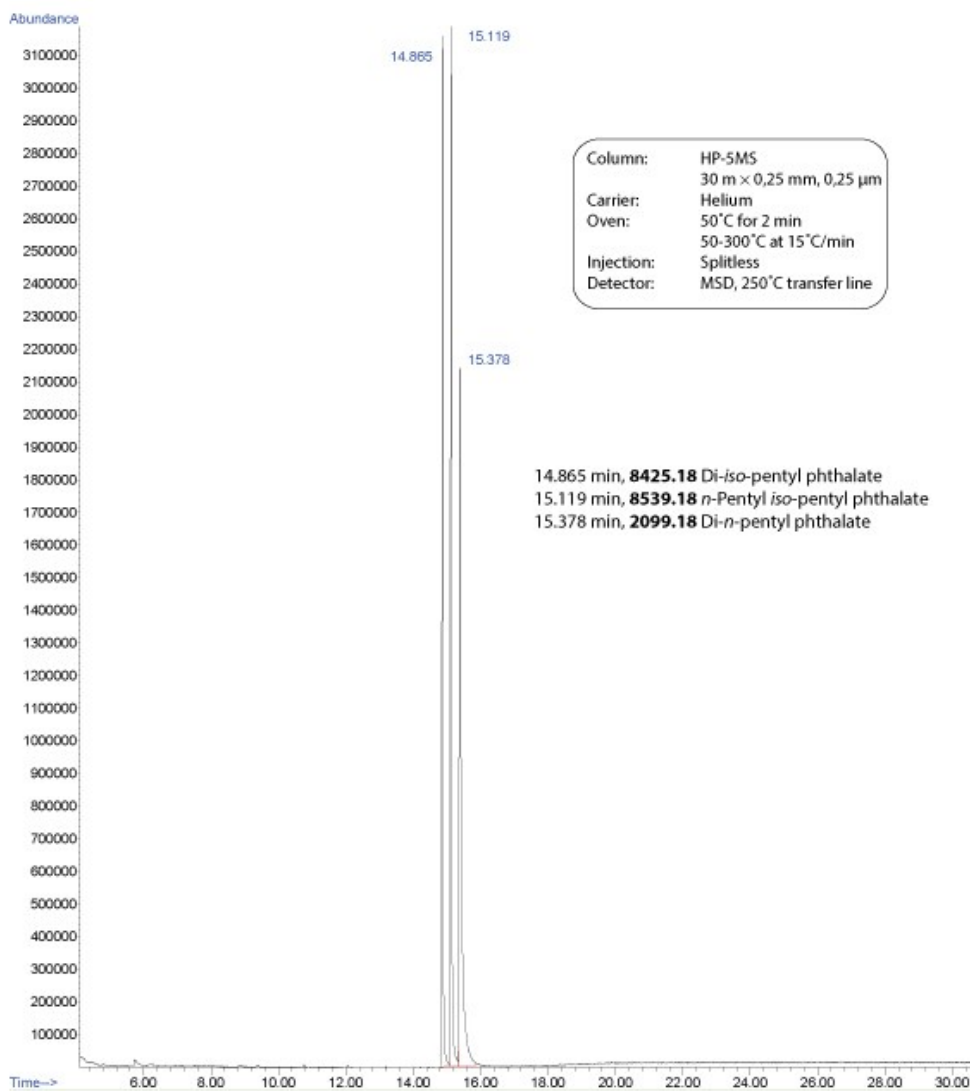
8539.18 *n*-Pentyl *iso*-pentyl phthalate



8425.18 Di-*iso*-pentyl phthalate

9362.3 Pentyl- /Isopentyl phthalate Kit (2099.18 + 8539.18 + 8425.18)





These standards are available from Chiron AS as 100µg/mL and 1000µg/mL in isooctane (1mL). Neat material is available on request.

Pr.no.	Name
9754.17	<i>n</i> -Butyl <i>n</i> -pentyl phthalate
9755.17	<i>Iso</i> -Butyl <i>n</i> -pentyl phthalate
9756.17	<i>n</i> -Butyl <i>iso</i> -pentyl phthalate ( <i>n</i> -Butyl 3-methylbutyl phthalate)
9757.20	<i>n</i> -Pentyl benzyl phthalate
9758.20	<i>Iso</i> -pentyl Benzyl phthalate (Benzyl 3-methylbutyl phthalate)
9759.24	2-Ethylhexyl <i>n</i> -octyl phthalate
8733.20	<i>n</i> -Butyl <i>n</i> -octyl phthalate
2103.22	Hexyl 2-ethylhexyl phthalate (isomer mixture)
3125.18	Benzyl <i>n</i> -butyl phthalate-3,4,5,6-d4
9925.18	<i>n</i> -Pentyl- <i>iso</i> -pentyl phthalate-3,4,5,6-d4
9926.16	<i>n</i> -Butyl <i>iso</i> -butyl phthalate-3,4,5,6-d4

Lit: <http://www.echa.europa.eu/web/guest/candidate-list-table>

