

Biomarker Focus 50 - Mixed phthalates

Butyl isobutyl phthalate, Pentyl isopentyl phthalate, Butyl benzyl phthalate

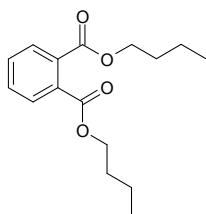
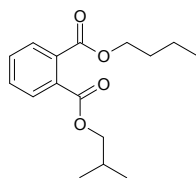
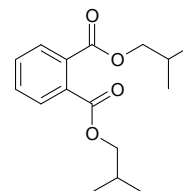
Certain phthalates are now listed on the CANDIDATE LIST OF SUBSTANCES OF VERY HIGH CONCERN FOR AUTHORIZATION by ECHA, the European Chemicals Agency:

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



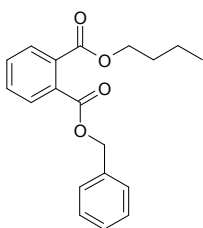
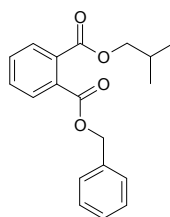
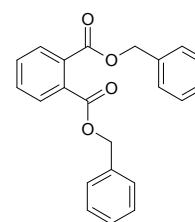
UNIQUE in-house proprietary technology enables Chiron to offer pure mixed phthalate-esters in sufficient quantities for toxicological and analytical purposes. In contrary to traditional synthesis methods where transesterification is a problem, the new method enables us to synthesize these esters in pure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

Butyl- / Isobutyl phthalates

1226.16 Di-*n*-butyl phthalate8537.16 *n*-Butyl *iso*-butyl phthalate2102.16 Di-*iso*-butyl phthalate

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

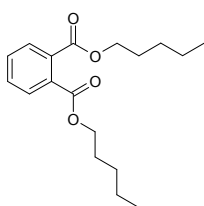
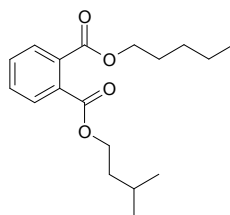
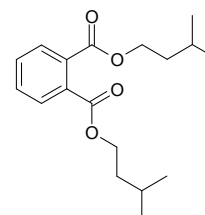
Butyl- / Benzyl phthalates

1227.19 *n*-Butylbenzyl phthalate9360.19 *iso*-butyl benzyl phthalate

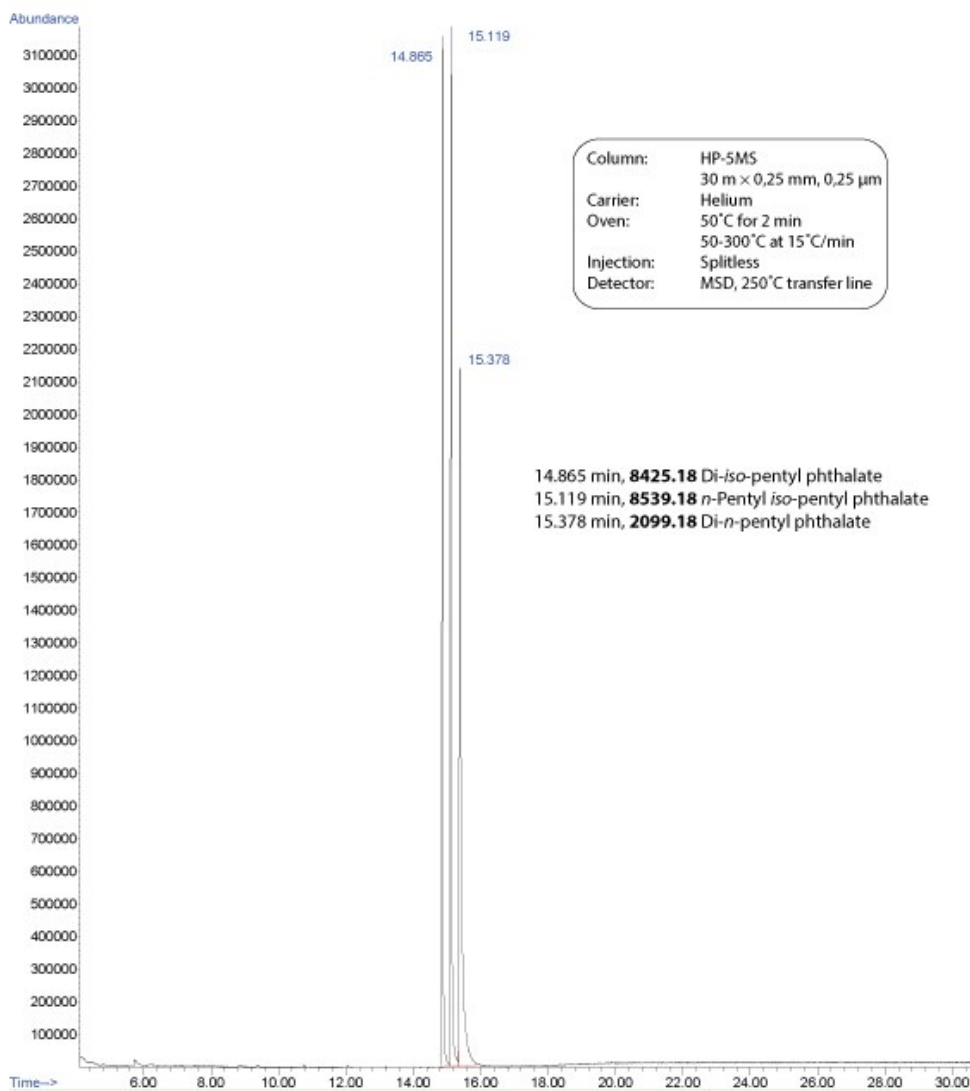
2054.22 Dibenzyl phthalate

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

Pentyl- / Isopentyl phthalates

2099.18 Di-*n*-pentyl phthalate8539.18 *n*-Pentyl *iso*-pentyl phthalate8425.18 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>

