



Institut für Dünnschichttechnologie  
und Mikrosensorik e.V.

# CATALOG

## TAILOR-MADE ORGANIC MATERIALS

- 1000 Indolo[3,2-b]carbazoles
- 2000 Phthalates
- 3000 Terephthalates / Trimellitates
- 4000 Camphor Derivates
- 5000 Alkylphenylsulfonates
- 6000 Special Aromatics / Heteroaromatics / Fluorine Compounds
- 7000 Thiophenes / Thienyl-substituted Heteroaromatics
- 8000 Aromatic 1,3,4-Oxadiazoles
- 9000 Polymers

### INQUIRIES and ORDERS

Institut für Dünnschichttechnologie und Mikrosensorik e.V.

Kantstr. 55

D-14513 Teltow

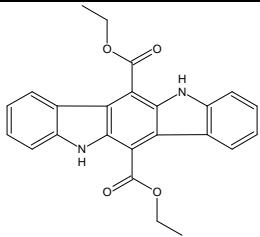
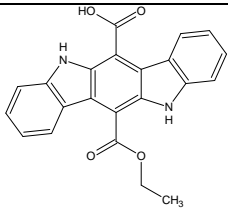
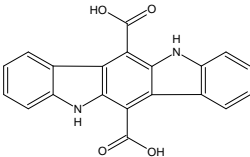
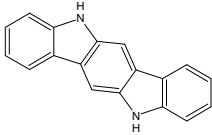
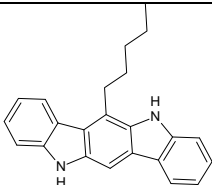
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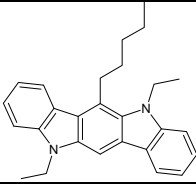
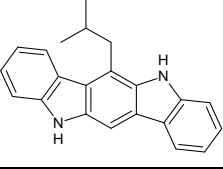
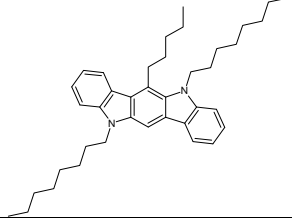
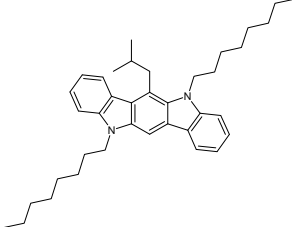
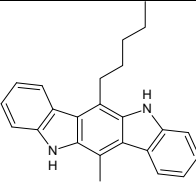
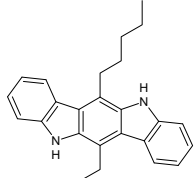
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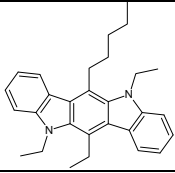
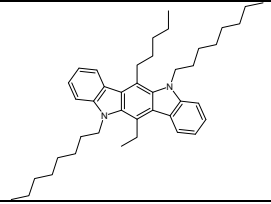
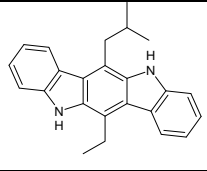
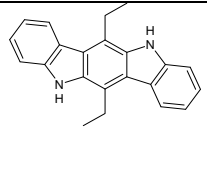
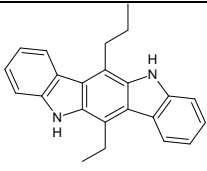
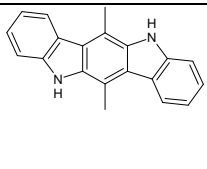
[info@idm-teltow.de](mailto:info@idm-teltow.de)

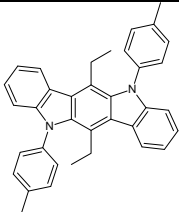
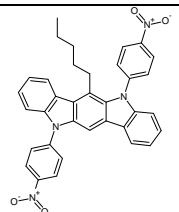
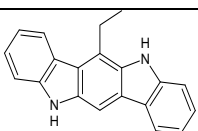
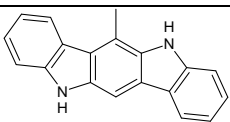
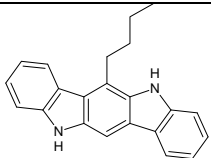
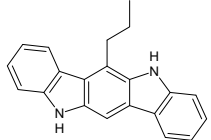


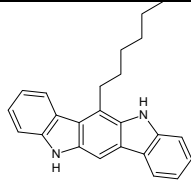
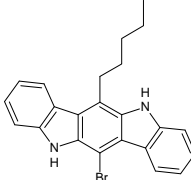
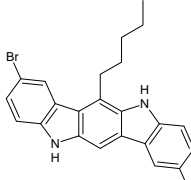
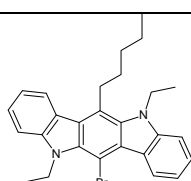
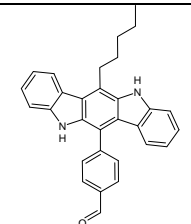
## CATALOG Indolo[3,2-b]carbazoles

|   |   |
|---|---|
| Cat.-no. 1001   | Diethyl 2,5-dihydroindolo[3,2-b]carbazol-6,12-dicarboxylate<br>(Indolo[3,2b]carbazol-6,12-dicarboxyl acid, 5,11-dihydro-,6,12-diethylester) |
|    | Int. no. F97<br>CAS-Nr. 252987-48-7<br>Molecular Formula $C_{24}H_{20}N_2O_4$<br>Formula Weight 400,427                                     |
| Cat.-no. 1002   | Ethyl 12-carboxyl-5,11-dihydroindolo[3,2-b]carbazol-6-carboxylate   |
|    | Int. no. F98A<br>CAS-Nr.<br>Molecular Formula $C_{22}H_{16}N_2O_2$<br>Formula Weight 372,374  |
| Cat.-no. 1003   | 5,11-Dihydroindolo[3,2-b]carbazol-6,12-dicarboxylic acid  |
|  | Int. no. F98B<br>CAS-Nr. 1772617-46-5<br>Molecular Formula $C_{20}H_{12}N_2O_4$<br>Formula Weight 344,320                                   |
| Cat.-no. 1004   | 5,11-Dihydroindolo[3,2-b]carbazole  |
|  | Int. no. F88<br>CAS-Nr. 6336-32-9<br>Molecular Formula $C_{18}H_{12}N_2$<br>Formula Weight 266,301  |
| Cat.-no. 1005   | 5,11-Dihydro-6-pentylindolo[3,2-b]carbazole (12-Pentyl-5,11-dihydroindolo[3,2-b]carbazole)  |
|  | Int. no. F174<br>CAS-Nr. 910111-97-6<br>Molecular Formula $C_{23}H_{22}N_2$<br>Formula Weight 326,434                                       |

|   |  |
|---|--|
| Cat.-no. 1006   | 5,11-Diethyl-5,11-dihydro-6-pentylindolo[3,2-b]carbazole   |
|    | Int. no. F177<br>CAS-Nr. 910112-00-4<br>Molecular Formula $C_{27}H_{30}N_2$<br>Formula Weight 382,54   |
| Cat.-no. 1007   | 5,11-Dihydro-6-(2-methylpropyl)indolo[3,2-b]carbazole  |
|    | Int. no. F180<br>CAS-Nr. 910111-96-5<br>Molecular Formula $C_{22}H_{20}N_2$<br>Formula Weight 312,408  |
| Cat.-no. 1008   | 5,11-Dihydro-5,11-dioctyl-6-pentylindolo[3,2-b]carbazole   |
|   | Int. no. F184A<br>CAS-Nr.<br>Molecular Formula $C_{39}H_{54}N_2$<br>Formula Weight 550,859             |
| Cat.-no. 1009   | 5,11-Dihydro-5,11-dioctyl-6-(2-methylpropyl)indolo[3,2-b]carbazole                                     |
|  | Int. no. F185A-2S<br>CAS-Nr.<br>Molecular Formula $C_{38}H_{52}N_2$<br>Formula Weight 536,833          |
| Cat.-no. 1010   | 5,11-Dihydro-6-methyl-12-pentylindolo[3,2-b]carbazole  |
|  | Int. no. F190B<br>CAS-Nr. 950766-80-0<br>Molecular Formula $C_{24}H_{24}N_2$<br>Formula Weight 340,461 |
| Cat.-no. 1011   | 5,11-Dihydro-6-ethyl -12-pentylindolo[3,2-b]carbazole  |
|  | Int. no. F206<br>CAS-Nr. 950766-81-1<br>Molecular Formula $C_{25}H_{26}N_2$<br>Formula Weight 354,487  |

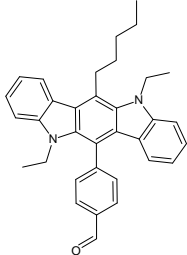
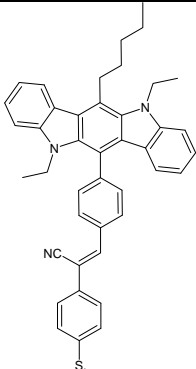
|   |   |
|---|---|
| Cat.-no. 1012   | 5,11-Diethyl-5,11-dihydro-6-pentyl-12-ethylindolo[3,2-b]carbazole                                     |
|    | Int. no. F207A<br>CAS-Nr.<br>Molecular Formula $C_{29}H_{34}N_2$<br>Formula Weight 410,594            |
| Cat.-no. 1013   | 5,11-Dihydro-5,11-dioctyl-6-ethyl-12-pentylindolo[3,2-b]carbazole                                     |
|    | Int. no. F208<br>CAS-Nr.<br>Molecular Formula $C_{41}H_{58}N_2$<br>Formula Weight 578,913             |
| Cat.-no. 1014   | 5,11-Dihydro-6-ethyl-12-(2-methylpropyl)indolo[3,2-b]carbazole  |
|   | Int. no. F209<br>CAS-Nr.<br>Molecular Formula $C_{24}H_{24}N_2$<br>Formula Weight 340,461             |
| Cat.-no. 1015   | 5,11-Dihydro-6,12-diethylindolo[3,2-b]carbazole   |
|  | Int.-Nr. F215<br>CAS-Nr.<br>Molecular Formula $C_{22}H_{20}N_2$<br>Formula Weight 312,408             |
| Cat.-no. 1016   | 5,11-Dihydro-6-ethyl-12-propylindolo[3,2-b]carbazole  |
|  | Int. no. F217<br>CAS-Nr.<br>Molecular Formula $C_{23}H_{22}N_2$<br>Formula Weight 326,434             |
| Cat.-no. 1017   | 5,11-Dihydro-6,12-dimethylindolo[3,2-b]carbazole  |
|  | Int. no. F233<br>CAS-Nr. 252987-46-6<br>Molecular Formula $C_{20}H_{16}N_2$<br>Formula Weight 284,354 |

|   |  |
|---|--|
| Cat.-no. 1018   | 5,11-Dihydro-5,11-di-(4-methylphenyl)-6,12-diethylindolo[3,2-b]carbazole                               |
|    | Int. no. F291A<br>CAS-Nr.<br>Molecular Formula $C_{36}H_{32}N_2$<br>Formula Weight 492,65              |
| Cat.-no. 1019   | 5,11-Dihydro- 5,11-di-(4-nitrophenyl)-6-pentylindolo[3,2-b]carbazole                                   |
|    | Int. no. F294<br>CAS-Nr.<br>Molecular Formula $C_{35}H_{28}N_4O_4$<br>Formula Weight 568,62            |
| Cat.-no. 1020   | 5,11-Dihydro-6-ethylindolo[3,2-b]carbazole   |
|   | Int. no. F296<br>CAS-Nr. 2123464-44-6<br>Molecular Formula $C_{20}H_{16}N_2$<br>Formula Weight 284,354 |
| Cat.-no. 1021   | 5,11-Dihydro-6-methylindolo[3,2-b]carbazole  |
|  | Int. no. F297<br>CAS-Nr. 229020-91-1<br>Molecular Formula $C_{19}H_{14}N_2$<br>Formula Weight 270,328  |
| Cat.-no. 1022   | 5,11-Dihydro-6-butylindolo[3,2-b]carbazole   |
|  | Int no. F299<br>CAS-Nr.<br>Molecular Formula $C_{22}H_{20}N_2$<br>Formula Weight 312,408               |
| Cat.-no. 1023   | 5,11-Dihydro-6-propylindolo[3,2-b]carbazole  |
|  | Int. no. F300<br>CAS-Nr.<br>Molecular Formula $C_{21}H_{18}N_2$<br>Formula Weight 298,381              |

|   |   |
|---|---|
| Cat.-no. 1024   | 5,11-Dihydro-6-hexylindolo[3,2-b]carbazole  |
|    | Int. no. F301<br>CAS-Nr.<br>Molecular Formula $C_{24}H_{24}N_2$<br>Formula Weight 340,461                 |
| Cat.-no. 1025   | 5,11-Dihydro-6-bromo-12-pentylindolo[3,2-b]carbazole  |
|    | Int. no. F303A<br>CAS-Nr. 950766-89-9<br>Molecular Formula $C_{23}H_{21}BrN_2$<br>Formula Weight 405,330  |
| Cat.-no. 1026   | 2,8-Dibromo-5,11-dihydro-6-pentylindolo[3,2-b]carbazole   |
|   | Int. no. F308<br>CAS-Nr. 910112-11-7<br>Molecular Formula $C_{23}H_{20}Br_2N_2$<br>Formula Weight 484,226 |
| Cat.-no. 1027   | 5,11-Diethyl -5,11-dihydro- 6-bromo-12-pentylindolo[3,2-b]carbazole                                       |
|  | Int. no. F332<br>CAS-Nr.<br>Molecular Formula $C_{27}H_{29}BrN_2$<br>Formula Weight 461,436               |
| Cat.-no. 1028   | 4-(5,11-Dihydro-12-pentylindolo[3,2-b]carbazol-6-yl) benzaldehyde   |
|  | Int. no. F306<br>CAS-Nr. 950766-90-2<br>Molecular Formula $C_{30}H_{26}N_2O$<br>Formula Weight 430,54     |

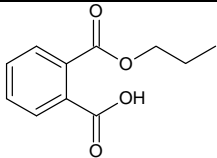
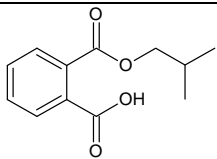
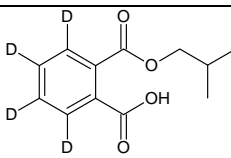
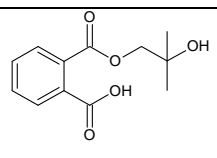
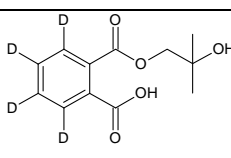
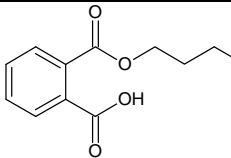


## CATALOG Indolo[3,2-b]carbazoles

|  |   |
|--|---|
| Cat.-no. 1029  | 4-(5,11-Diethyl-5,11-dihydro-12-pentylindolo[3,2-b]carbazol-6-yl)-benzaldehyde                                |
|   | Int. no. F336<br>CAS-Nr.<br>Molecular Formula $C_{34}H_{34}N_2O$<br>Formula Weight 486,65                     |
| Cat.-no. 1030  | 5,11-Diethyl-5,11-dihydro-6-{4-[2-cyano-2-(4-thiomethylphenyl)ethenyl]phenyl}-12-pentylindolo[3,2-b]carbazole |
|  | Int. no. F337<br>CAS-Nr.<br>Molecular Formula $C_{43}H_{41}N_3S$<br>Formula Weight 631,871                    |



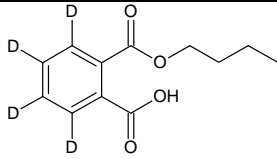
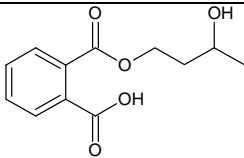
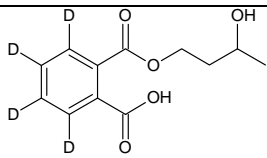
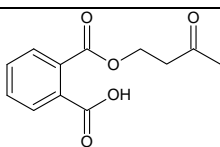
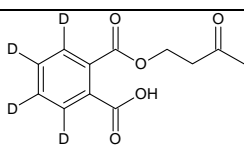
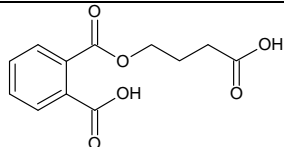
## CATALOG Phthalates

|   |   |
|---|---|
| Cat.-no. 2001   | 2-(Propoxycarbonyl)benzoic acid (Monopropyl-phthalate)  |
|    | Int. no. A765<br>CAS 4376-19-6<br>Molecular Formula $C_{11}H_{12}O_4$<br>Formula Weight 208,21                            |
| Cat.-no. 2002   | 2-[(2-Methylpropoxy)carbonyl]benzoic acid ( Monoisobutyl-phthalate)   |
|    | Int. no. A692<br>CAS 30833-53-5<br>Molecular Formula $C_{12}H_{14}O_4$<br>Formula Weight 222,24                           |
| Cat.-no. 2003   | 2-[(2-Methylpropoxy)carbonyl] $^{(2}H_4)$ benzoic acid (Monoisobutyl-(3,4,5,6- $^2H_4$ )-phthalate)                       |
|    | Int.no. A516<br>CAS 1219802-26-2<br>Molecular Formula $C_{12}H_{10}D_4O_4$<br>Formula Weight 226,27                       |
| Cat.-no. 2004   | 2-[(2-Hydroxy-2-methylpropoxy)carbonyl]benzoic acid (Mono-(2-hydroxyisobutyl)-phthalate)                                  |
|  | Int. no. A729<br>CAS 64339-39-5<br>Molecular Formula $C_{12}H_{14}O_5$<br>Formula Weight 238,24                           |
| Cat.-no. 2005   | 2-[(2-Hydroxy-2-methylpropoxy)carbonyl] $^{(2}H_4)$ benzoic acid (Mono-(2-hydroxyisobutyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|  | Int. no. P688<br>CAS 2119597-90-7<br>Molecular Formula $C_{12}H_{10}D_4O_5$<br>Formula Weight 242,27                      |
| Cat.-no. 2006   | 2-(Butoxycarbonyl)benzoic acid (Monobutyl-phthalate)  |
|  | Int. no. A690<br>CAS 131-70-4<br>Molecular Formula $C_{12}H_{14}O_4$<br>Formula Weight 222,24                             |



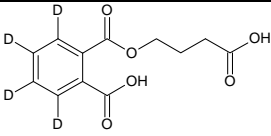
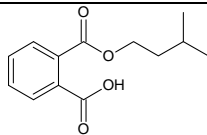
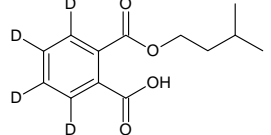
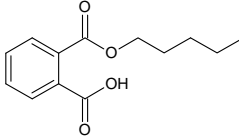
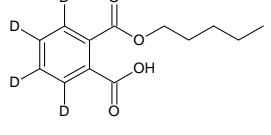
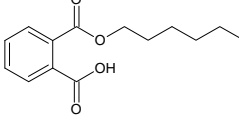


## CATALOG Phthalates

|   |  |
|---|--|
| Cat.-no. 2007   | 2-(Butoxycarbonyl)( <sup>2</sup> H <sub>4</sub> )benzoic acid (Monobutyl-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)                        |
|    | Int. no. A629<br>CAS 478954-81-3<br>Molecular Formula C <sub>12</sub> H <sub>10</sub> D <sub>4</sub> O <sub>4</sub><br>Formula Weight 226,27       |
| Cat.-no. 2008   | 2-[(3-Hydroxybutoxy)carbonyl]benzoic acid (Mono-(3-hydroxybutyl)-phthalate)  |
|    | Int. no. A716<br>CAS 57074-43-8<br>Molecular Formula C <sub>12</sub> H <sub>14</sub> O <sub>5</sub><br>Formula Weight 238,24                       |
| Cat.-no. 2009   | 2-[(3-Hydroxybutoxy)carbonyl]( <sup>2</sup> H <sub>4</sub> )benzoic acid (Mono-(3-hydroxybutyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|   | Int. no. A718<br>CAS 2119601-77-1<br>Molecular Formula C <sub>12</sub> H <sub>10</sub> D <sub>4</sub> O <sub>5</sub><br>Formula Weight 242,27      |
| Cat.-no. 2010   | 2-[(3-Oxobutoxy)carbonyl]benzoic acid (Mono-(3-oxobutyl)-phthalate)  |
|  | Int. no. A713<br>CAS 66851-45-4<br>Molecular Formula C <sub>12</sub> H <sub>12</sub> O <sub>5</sub><br>Formula Weight 236,22                       |
| Cat.-no. 2011   | 2-[(3-Oxobutoxy)carbonyl]( <sup>2</sup> H <sub>4</sub> )benzoic acid (Mono-(3-oxobutyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)         |
|  | Int. no. A717<br>CAS<br>Molecular Formula C <sub>12</sub> H <sub>8</sub> D <sub>4</sub> O <sub>5</sub><br>Formula Weight 240,25                    |
| Cat.-no. 2012   | 2-[(3-Carboxypropoxy)carbonyl]benzoic acid (Mono-(3-carboxypropyl)-phthalate)  |
|  | Int. no. A196<br>CAS 66851-46-5<br>Molecular Formula C <sub>12</sub> H <sub>12</sub> O <sub>6</sub><br>Formula Weight 252,22                       |



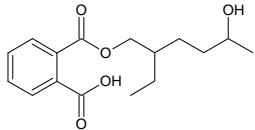
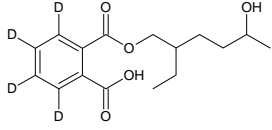
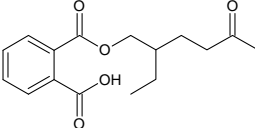
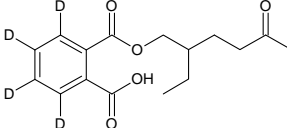
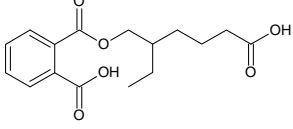
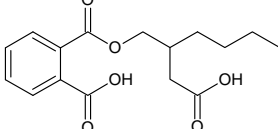
## CATALOG Phthalates

|   |  |
|---|--|
| Cat.-no. 2013   | 2-[(3-Carboxypropoxy)carbonyl] <sup>(2</sup> H <sub>4</sub> )benzoic acid (Mono-(3-carboxypropyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|    | Int. no. B103<br>CAS 1346600-69-8<br>Molecular Formula C <sub>12</sub> H <sub>8</sub> D <sub>4</sub> O <sub>6</sub><br>Formula Weight 256,26         |
| Cat.-no. 2014   | 2-[(3-Methylbutoxy)carbonyl]benzoic acid (Monoisopentyl-phthalate)   |
|    | Int. no. A569<br>CAS 17866-76-1<br>Molecular Formula C <sub>13</sub> H <sub>16</sub> O <sub>4</sub><br>Formula Weight 236,27                         |
| Cat.-no. 2015   | 2-[(3-Methylbutoxy)carbonyl] <sup>(2</sup> H <sub>4</sub> )benzoic acid (Monoisopentyl-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)            |
|    | Int. no. A568<br>CAS<br>Molecular Formula C <sub>13</sub> H <sub>12</sub> D <sub>4</sub> O <sub>4</sub><br>Formula Weight 240,30                     |
| Cat.-no. 2016   | 2-[(Pentyloxy)carbonyl]benzoic acid (Monopentyl-phthalate)   |
|  | Int. no. A689<br>CAS 24539-56-8<br>Molecular Formula C <sub>13</sub> H <sub>16</sub> O <sub>4</sub><br>Formula Weight 236,26                         |
| Cat.-no. 2017   | 2-[(Pentyloxy)carbonyl] <sup>(2</sup> H <sub>4</sub> )benzoic acid (Monopentyl-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)                    |
|  | Int. no. P515<br>CAS 1794756-28-7<br>Molecular Formula C <sub>13</sub> H <sub>12</sub> D <sub>4</sub> O <sub>4</sub><br>Formula Weight 240,29        |
| Cat.-no. 2018   | 2-[(Hexyloxy)carbonyl]benzoic acid (Mono-(n-hexyl)-phthalate)  |
|  | Int. no. A733<br>CAS<br>Molecular Formula C <sub>14</sub> H <sub>18</sub> O <sub>4</sub><br>Formula Weight 250,30                                    |



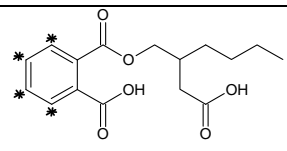
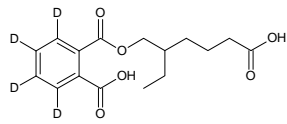
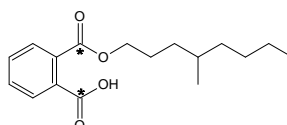
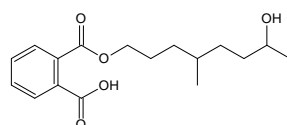
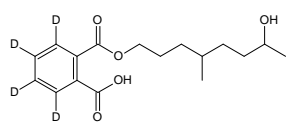
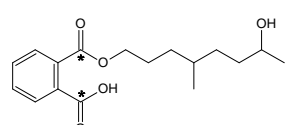
## CATALOG Phthalates

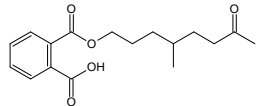
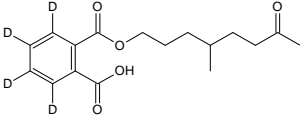
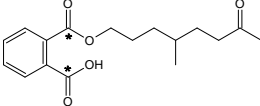
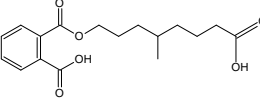
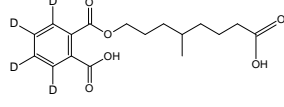
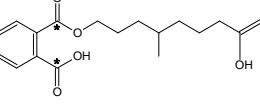
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|---------------|--|
| Cat.-no. 2019 | 2-[(Hexyloxy)carbonyl] <sup>(2</sup> H <sub>4</sub> )benzoic acid (Mono-(n-hexyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)             |
|               | Int. no. A734<br>CAS 24539-57-9<br>Molecular Formula C <sub>14</sub> H <sub>14</sub> D <sub>4</sub> O <sub>4</sub><br>Formula Weight 254,33      |
| Cat.-no. 2020 | 2-[(Heptyloxy)carbonyl]benzoic acid (Mono-(n-heptyl)-phthalate)  |
|               | Int. no. A736<br>CAS 24539-58-0<br>Molecular Formula C <sub>15</sub> H <sub>20</sub> O <sub>4</sub><br>Formula Weight 264,32                     |
| Cat.-no. 2021 | 2-[(Heptyloxy)carbonyl] <sup>(2</sup> H <sub>4</sub> )benzoic acid (Mono-(n-heptyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)           |
|               | Int. no. A737<br>CAS<br>Molecular Formula C <sub>15</sub> H <sub>16</sub> D <sub>4</sub> O <sub>4</sub><br>Formula Weight 268,35                 |
| Cat.-no. 2022 | 2-[[2-Ethylhexyl]oxy]carbonyl <sup>(2</sup> H <sub>4</sub> )benzoic acid (Mono-(2-ethylhexyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|               | Int. no. A626<br>CAS 1276197-22-8<br>Molecular Formula C <sub>16</sub> H <sub>18</sub> D <sub>4</sub> O <sub>4</sub><br>Formula Weight 282,37    |
| Cat.-no. 2023 | 2,3,4,5-Tetrabromo-6-[[2-ethylhexyl]oxy]carbonylbenzoic acid (Mono-(2-ethylhexyl) tetrabromophthalate)   |
|               | Int. no. A641<br>CAS 61776-60-1<br>Molecular Formula C <sub>16</sub> H <sub>18</sub> Br <sub>4</sub> O <sub>4</sub><br>Formula Weight 593,93     |
| Cat.-no. 2024 | 2,3,4,5-Tetrabromo-6-[[2-( <sup>2</sup> H <sub>5</sub> )ethyl( <sup>2</sup> H <sub>12</sub> )hexyl]oxy]carbonylbenzoic acid                      |
|               | Int. no. A645<br>CAS<br>Molecular Formula C <sub>16</sub> HD <sub>17</sub> Br <sub>4</sub> O <sub>4</sub><br>Formula Weight 611,03               |

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| Cat.-no. 2025   | 2-[[2-(2-Ethyl-5-hydroxyhexyl)oxy]carbonyl]benzoic acid (Mono-(2-ethyl-5-hydroxyhexyl)-phthalate)                                |
|    | Int. no. P493<br>CAS 40321-99-1<br>Molecular Formula $C_{16}H_{22}O_5$<br>Formula Weight 294,34                                  |
| Cat.-no. 2026   | 2-[[2-(2-Ethyl-5-hydroxyhexyl)oxy]carbonyl] $(^2H_4)$ benzoic acid (Mono-(2-ethyl-5-hydroxyhexyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|    | Int. no. A34<br>CAS 679789-43-6<br>Molecular Formula $C_{16}H_{18}D_4O_5$<br>Formula Weight 298,38                               |
| Cat.-no. 2027   | 2-[[2-(2-Ethyl-5-oxohexyl)oxy]carbonyl]benzoic acid (Mono-(2-ethyl-5-oxo-hexyl)-phthalate)                                       |
|   | Int. no. A26<br>CAS 40321-98-0<br>Molecular Formula $C_{16}H_{20}O_5$<br>Formula Weight 292,33                                   |
| Cat.-no. 2028   | 2-[[2-(2-Ethyl-5-oxohexyl)oxy]carbonyl] $(^2H_4)$ benzoic acid (Mono-(2-ethyl-5-oxo-hexyl)-(3,4,5,6- $^2H_4$ )-phthalate)        |
|  | Int. no. A40<br>CAS 679789-44-7<br>Molecular Formula $C_{16}H_{16}D_4O_5$<br>Formula Weight 296,36                               |
| Cat.-no. 2029   | 2-[[5-(2-Carboxy-2-ethylpentyl)oxy]carbonyl]benzoic acid (Mono-(2-ethyl-5-carboxypentyl)-phthalate)                              |
|  | Int. no. A492<br>CAS 40809-41-4<br>Molecular Formula $C_{16}H_{20}O_6$<br>Formula Weight 308,33                                  |
| Cat.-no. 2030   | 2-[[2-(2-(Carboxymethyl)hexyl)oxy]carbonyl]benzoic acid (Mono[2-(carboxymethyl)hexyl] phthalate)                                 |
|  | Int. no. F64.2<br>CAS 82975-93-7<br>Molecular Formula $C_{16}H_{20}O_6$<br>Formula Weight 308,33                                 |



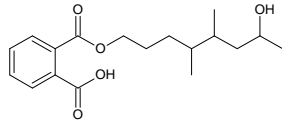
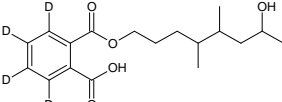
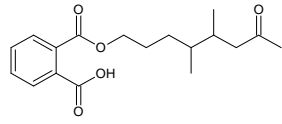
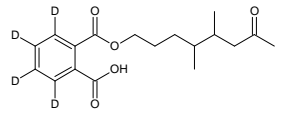
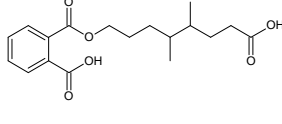
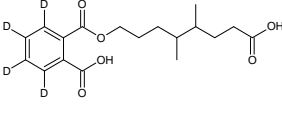
## CATALOG Phthalates

|   |   |
|---|---|
| Cat.-no. 2031   | 2-([2-(Carboxymethyl)hexyl]oxy)carbonyl(3,4,5,6- <sup>13</sup> C <sub>4</sub> )benzoic acid   |
|    | Int. no. F68<br>CAS<br>Molecular Formula C <sub>12</sub> <sup>13</sup> C <sub>4</sub> H <sub>20</sub> O <sub>6</sub><br>Formula Weight 312,30                     |
| Cat.-no. 2032   | 2-([5-(2-Carboxyethyl)oxy]carbonyl)( <sup>2</sup> H <sub>4</sub> )benzoic acid (Mono-(2-ethyl-5-carboxypentyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|    | Int. no. A152<br>CAS 866864-06-4<br>Molecular Formula C <sub>16</sub> H <sub>16</sub> D <sub>4</sub> O <sub>6</sub><br>Formula Weight 312,36                      |
| Cat.-no. 2033   | Mono-(4-methyloctyl)-phthalate- <sup>13</sup> C <sub>2</sub> -dicarboxyl  |
|    | Int. no. A564<br>CAS<br>Molecular Formula C <sub>15</sub> <sup>13</sup> C <sub>2</sub> H <sub>24</sub> O <sub>4</sub><br>Formula Weight 294,36                    |
| Cat.-no. 2034   | 2-([7-(4-Hydroxy-4-methyloctyl)oxy]carbonyl)benzoic acid (Mono-(4-methyl-7-hydroxyoctyl)-phthalate)   |
|  | Int. no. P417<br>CAS 936021-98-6<br>Molecular Formula C <sub>17</sub> H <sub>24</sub> O <sub>5</sub><br>Formula Weight 308,38                                     |
| Cat.-no. 2035   | Mono-(4-methyl-7-hydroxyoctyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate  |
|  | Int. no. P405<br>CAS-Nr. 1332965-98-6<br>Molecular Formula C <sub>17</sub> H <sub>20</sub> D <sub>4</sub> O <sub>5</sub><br>Formula Weight 312,41                 |
| Cat.-no. 2036   | Mono-(4-methyl-7-hydroxyoctyl)-phthalate- <sup>13</sup> C <sub>2</sub> -dicarboxyl  |
|  | Int. no. B100<br>CAS<br>Molecular Formula C <sub>15</sub> <sup>13</sup> C <sub>2</sub> H <sub>24</sub> O <sub>5</sub><br>Formula Weight 310,36                    |

|   |   |
|---|---|
| Cat.-no. 2037   | 2-[[[(4-Methyl-7-oxooctyl)oxy]carbonyl]benzoic acid (Mono-(4-methyl-7-oxo-octyl)-phthalate)   |
|    | Int. no. P416<br>CAS 936022-00-3<br>Molecular Formula $C_{17}H_{22}O_5$<br>Formula Weight 306,36                                      |
| Cat.-no. 2038   | Mono-(4-methyl-7-oxooctyl)-(3,4,5,6- $^2H_4$ )-phthalate  |
|    | Int. no. P476<br>CAS 1332966-00-3<br>Molecular Formula $C_{17}H_{18}D_4O_5$<br>Formula Weight 310,39                                  |
| Cat.-no. 2039   | Mono-(4-methyl-7-oxooctyl)-phthalate- $^{13}C_2$ -dicarboxyl  |
|    | Int. no. B101<br>CAS<br>Molecular Formula $C_{15}^{13}C_2H_{22}O_5$<br>Formula Weight 308,34  |
| Cat.-no. 2040   | 2-[[[(7-Carboxy-4-methylheptyl)oxy]carbonyl]benzoic acid (Mono-(4-methyl-7-carboxyheptyl)-phthalate)                                  |
|  | Int. no. P319<br>CAS-Nr. 936022-02-5<br>Molecular Formula $C_{17}H_{22}O_6$<br>Formula Weight 322,36                                  |
| Cat.-no. 2041   | 2-[[[(7-Carboxy-4-methylheptyl)oxy]carbonyl] $^{(2}H_4)$ benzoic acid (Mono-(4-methyl-7-carboxyheptyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|  | Int. no. P407<br>CAS 1332966-02-5<br>Molecular Formula $C_{17}H_{18}D_4O_6$<br>Formula Weight 326,39                                  |
| Cat.-no. 2042   | Mono-(4-methyl-7-carboxyheptyl)-phthalate- $^{13}C_2$ -dicarboxyl   |
|  | Int. no. A575<br>CAS<br>Molecular Formula $C_{15}^{13}C_2H_{22}O_6$<br>Formula Weight 324,34  |

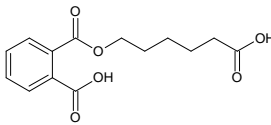
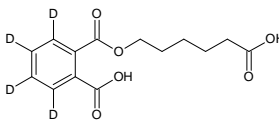
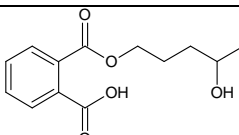
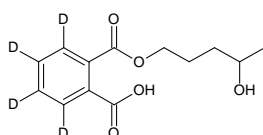
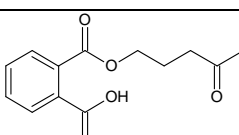
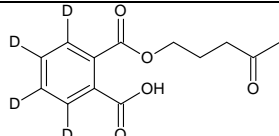


## CATALOG Phthalates

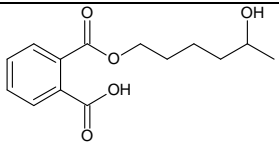
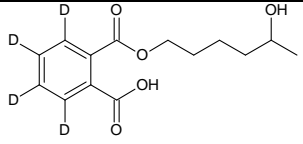
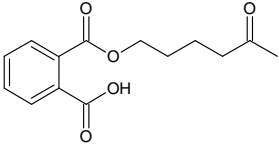
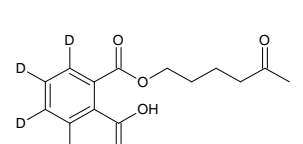
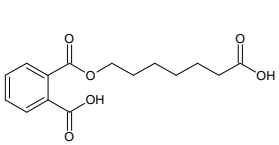
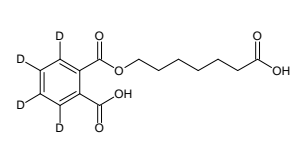
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|---|---|
| Cat.-no. 2043   | 2-[[{(7-Hydroxy-4,5-dimethyloctyl)oxy]carbonyl}benzoic acid (Mono-(4,5-dimethyl-7-hydroxyoctyl)-phthalate)                                    |
|    | Int. no. F285/A593<br>CAS 1558758-71-6<br>Molecular Formula $C_{18}H_{26}O_5$<br>Formula Weight 322,40  |
| Cat.-no. 2044   | 2-[[{(7-Hydroxy-4,5-dimethyloctyl)oxy]carbonyl} $^{(2}H_4)$ benzoic acid (Mono-(4,5-dimethyl-7-hydroxyoctyl)-(3,4,5,6- $^2H_4$ )-phthalate)   |
|    | Int. no. A581<br>CAS<br>Molecular Formula $C_{18}H_{22}D_4O_5$<br>Formula Weight 326,43   |
| Cat.-no. 2045   | 2-[[{(4,5-Dimethyl-7-oxooctyl)oxy]carbonyl}benzoic acid (Mono-(4,5-dimethyl-7-oxooctyl)-phthalate)  |
|   | Int. no. F284<br>CAS<br>Molecular Formula 1558758-70-5<br>Formula Weight $C_{18}H_{24}O_5$<br>320,39  |
| Cat.-no. 2046   | 2-[[{(4,5-Dimethyl-7-oxooctyl)oxy]carbonyl} $^{(2}H_4)$ benzoic acid (Mono-(4,5-dimethyl-7-oxooctyl)-(3,4,5,6- $^2H_4$ )-phthalate)           |
|  | Int. no. P441<br>CAS<br>Molecular Formula $C_{18}H_{20}D_4O_5$<br>Formula Weight 324,42   |
| Cat.-no. 2047   | 2-[[{(7-Carboxy-4,5-dimethylheptyl)oxy]carbonyl}benzoic acid (Mono-(4,5-dimethyl-7-carboxyheptyl)-phthalate)                                  |
|  | Int.-Nr. A552/F114<br>CAS 1558758-73-8<br>Molecular Formula $C_{18}H_{24}O_6$<br>Formula Weight 336,39  |
| Cat.-no. 2048   | 2-[[{(7-Carboxy-4,5-dimethylheptyl)oxy]carbonyl} $^{(2}H_4)$ benzoic acid (Mono-(4,5-dimethyl-7-carboxyheptyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|  | Int. no. F121<br>CAS<br>Molecular Formula $C_{18}H_{20}D_4O_6$<br>Formula Weight 340,42   |



## CATALOG Phthalates

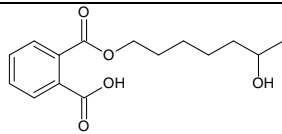
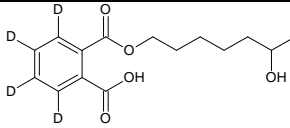
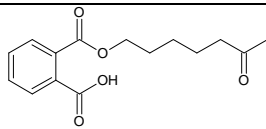
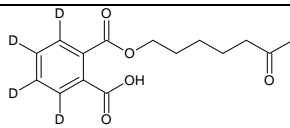
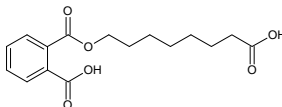
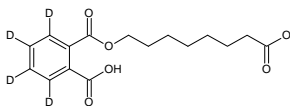
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|---|---|
| Cat.-no. 2049   | 2-[[{(5-Carboxypentyl)oxy}carbonyl]benzoic acid (Mono-(5-carboxypentyl)-phthalate)                                |
|    | Int. no. P157<br>CAS 92569-49-8<br>Molecular Formula $C_{14}H_{16}O_5$<br>Formula Weight 280,273                  |
| Cat.-no. 2050   | 2-[[{(5-Carboxypentyl)oxy}carbonyl}( $^2H_4$ )benzoic acid (Mono-(5-carboxypentyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|    | Int. no. A738<br>CAS<br>Molecular Formula $C_{14}H_{12}D_4O_5$<br>Formula Weight 284,298                          |
| Cat.-no. 2051   | 2-[[{(4-Hydroxypentyl)oxy}carbonyl]benzoic acid (Mono-(4-hydroxypentyl)-phthalate)                                |
|    | Int. no. M177<br>CAS 1334312-05-8<br>Molecular Formula $C_{13}H_{16}O_5$<br>Formula Weight 252,27                 |
| Cat.-no. 2052   | 2-[[{(4-Hydroxypentyl)oxy}carbonyl}( $^2H_4$ )benzoic acid (Mono-(4-hydroxypentyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|  | Int. no. W23<br>CAS 1346600-18-7<br>Molecular Formula $C_{13}H_{12}D_4O_5$<br>Formula Weight 256,29               |
| Cat.-no. 2053   | 2-[[{(4-Oxopentyl)oxy}carbonyl]benzoic acid (Mono-(4-oxopentyl)-phthalate)  |
|  | Int. no. W29<br>CAS 1334311-47-5<br>Molecular Formula $C_{13}H_{14}O_5$<br>Formula Weight 250,25                  |
| Cat.-no. 2054   | 2-[[{(4-Oxopentyl)oxy}carbonyl}( $^2H_4$ )benzoic acid (Mono-(4-oxopentyl)-(3,4,5,6- $^2H_4$ )-phthalate)         |
|  | Int. no. W25<br>CAS 1346599-47-0<br>Molecular Formula $C_{13}H_{10}D_4O_5$<br>Formula Weight 254,27               |



|   |  |
|---|--|
| Cat.-no. 2055   | 2-[[[5-Hydroxyhexyl)oxy]carbonyl]benzoic acid (Mono-(5-hydroxyhexyl)-phthalate)  |
|    | Int. no. M174<br>CAS<br>Molecular Formula $C_{14}H_{18}O_5$<br>Formula Weight 266,29   |
| Cat.-no. 2056   | 2-[[[5-Hydroxyhexyl)oxy]carbonyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (Mono-(5-hydroxyhexyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|    | Int. no. M175<br>CAS<br>Molecular Formula $C_{14}H_{14}D_4O_5$<br>Formula Weight 270,31  |
| Cat.-no. 2057   | 2-[[[5-Oxohexyl)oxy]carbonyl]benzoic acid (Mono-(5-oxohexyl)-phthalate)  |
|   | Int. no. P743<br>CAS<br>Molecular Formula $C_{14}H_{16}O_5$<br>Formula Weight 264,27   |
| Cat.-no. 2058   | 2-[[[5-Oxohexyl)oxy]carbonyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (Mono-(5-oxohexyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)         |
|  | Int. no. W28<br>CAS<br>Molecular Formula $C_{14}H_{12}D_4O_5$<br>Formula Weight 268,30   |
| Cat.-no. 2059   | 2-[[[6-Carboxyhexyl)oxy]carbonyl]benzoic acid (Mono-(6-carboxyhexyl)-phthalate)  |
|  | Int. no. A755/ P727<br>CAS<br>Molecular Formula $C_{15}H_{18}O_6$<br>Formula Weight 294,30   |
| Cat.-no. 2060   | 2-[[[6-Carboxyhexyl)oxy]carbonyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (Mono-(6-carboxyhexyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|  | Int. no. A756/ P728<br>CAS<br>Molecular Formula $C_{15}H_{14}D_6O_6$<br>Formula Weight 298,32  |

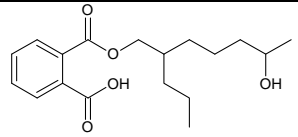
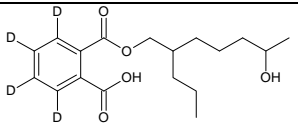
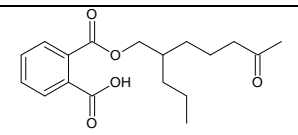
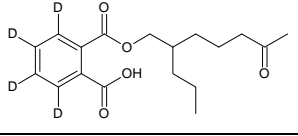
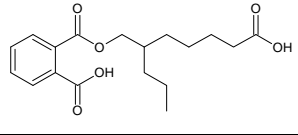
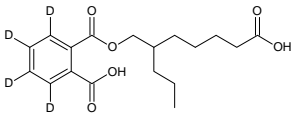


## CATALOG Phthalates

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|---|---|
| Cat.-no. 2061   | 2-[[6-Hydroxyheptyl]oxy]carbonyl]benzoic acid (Mono-(6-hydroxyheptyl)-phthalate)                                |
|    | Int. no. P741<br>CAS<br>Molecular Formula $C_{15}H_{20}O_5$<br>Formula Weight 280,32                            |
| Cat.-no. 2062   | 2-[[6-Hydroxyheptyl]oxy]carbonyl}( $^2H_4$ )benzoic acid (Mono-(6-hydroxyheptyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|    | Int. no. P742<br>CAS<br>Molecular Formula $C_{15}H_{16}D_4O_5$<br>Formula Weight 284,34                         |
| Cat.-no. 2063   | 2-[[6-Oxoheptyl]oxy]carbonyl]benzoic acid (Mono-(6-oxoheptyl)-phthalate)  |
|    | Int. no. P736<br>CAS<br>Molecular Formula $C_{15}H_{18}O_5$<br>Formula Weight 278,31                            |
| Cat.-no. 2064   | 2-[[6-Oxoheptyl]oxy]carbonyl}( $^2H_4$ )benzoic acid (Mono-(6-oxoheptyl)-(3,4,5,6- $^2H_4$ )-phthalate)         |
|  | Int.-Nr. P735<br>CAS<br>Molecular Formula $C_{15}H_{14}D_4O_5$<br>Formula Weight 282,33                         |
| Cat.-no. 2065   | 2-[[7-Carboxyheptyl]oxy]carbonyl]benzoic acid (Mono-(7-carboxyheptyl)-phthalate)                                |
|  | Int. no. A746<br>CAS 856869-57-3<br>Molecular Formula $C_{16}H_{20}O_6$<br>Formula Weight 308,33                |
| Cat.-no. 2066   | 2-[[7-Carboxyheptyl]oxy]carbonyl}( $^2H_4$ )benzoic acid (Mono-(7-carboxyheptyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|  | Int. no. A747<br>CAS<br>Molecular Formula $C_{16}H_{16}D_4O_6$<br>Formula Weight 312,35                         |

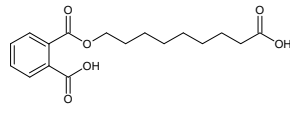
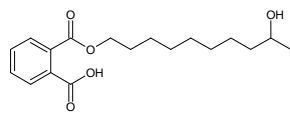
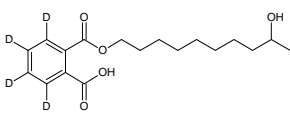
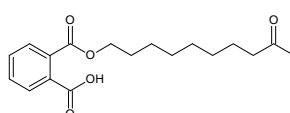
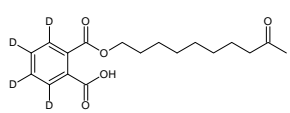
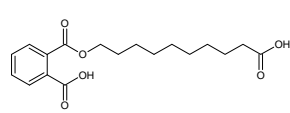


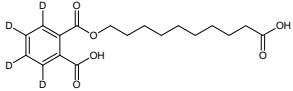
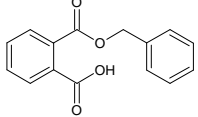
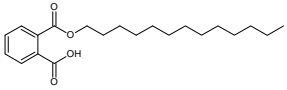
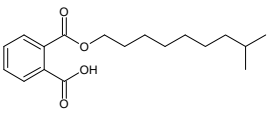
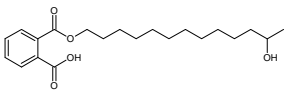
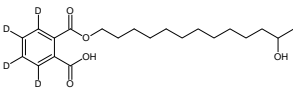
## CATALOG Phthalates

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|---|--|
| Cat.-no. 2067   | 2-[[[6-Hydroxy-2-propylheptyl]oxy]carbonyl]benzoic acid (Mono-(2-propyl-6-hydroxyheptyl)-phthalate)  |
|    | Int. no. F148/ P56<br>CAS 1372605-11-2<br>Molecular Formula $C_{18}H_{26}O_5$<br>Formula Weight 322,40   |
| Cat.-no. 2068   | 2-[[[6-Hydroxy-2-propylheptyl]oxy]carbonyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (Mono-(2-propyl-6-hydroxyheptyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|    | Int. no. A673/ F149<br>CAS 1412411-11-0<br>Molecular Formula $C_{18}H_{22}D_4O_5$<br>Formula Weight 326,42   |
| Cat.-no. 2069   | 2-[[[6-Oxo-2-propylheptyl]oxy]carbonyl]benzoic acid (Mono-(2-propyl-6-oxoheptyl)-phthalate)  |
|    | Int. no. A612/ F146<br>CAS 1373125-92-8<br>Molecular Formula $C_{18}H_{24}O_5$<br>Formula Weight 320,38  |
| Cat.-no. 2070   | 2-[[[6-Oxo-2-propylheptyl]oxy]carbonyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (Mono-(2-propyl-6-oxoheptyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)         |
|  | Int. no. A668/ F147B<br>CAS 1412411-13-2<br>Molecular Formula $C_{18}H_{20}D_4O_5$<br>Formula Weight 324,40  |
| Cat.-no. 2071   | 2-[[[6-Carboxy-2-propylhexyl]oxy]carbonyl]benzoic acid (Mono-(2-propyl-6-carboxyhexyl)-phthalate)  |
|  | Int. no. A596<br>CAS 1412411-10-9<br>Molecular Formula $C_{18}H_{24}O_6$<br>Formula Weight 336,38  |
| Cat.-no. 2072   | 2-[[[6-Carboxy-2-propylhexyl]oxy]carbonyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (Mono-(2-propyl-6-carboxyhexyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate)   |
|  | Int. no. A598<br>CAS 1412411-14-3<br>Molecular Formula $C_{18}H_{20}D_4O_6$<br>Formula Weight 340,40   |



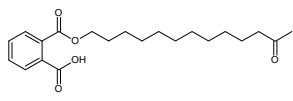
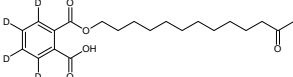
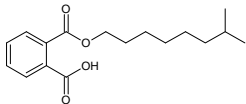
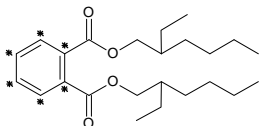
## CATALOG Phthalates

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|---|---|
| Cat.-no. 2073   | 2-[[8-Carboxydecyl]oxy]carbonyl]benzoic acid  |
|    | Int. no. P96<br>CAS 92569-51-2<br>Molecular Formula $C_{17}H_{22}O_6$<br>Formula Weight 322,35                  |
| Cat.-no. 2074   | 2-[[9-Hydroxydecyl]oxy]carbonyl]benzoic acid (Mono-(9-hydroxydecyl)-phthalate)                                  |
|    | Int. no. A773<br>CAS<br>Molecular Formula $C_{18}H_{26}O_5$<br>Formula Weight 322,40                            |
| Cat.-no. 2075   | 2-[[9-Hydroxydecyl]oxy]carbonyl] $^{(2}H_4)$ benzoic acid (Mono-(9-hydroxydecyl)-(3,4,5,6- $^2H_4$ )-phthalate) |
|    | Int. no. A774<br>CAS<br>Molecular Formula $C_{18}H_{22}D_4O_5$<br>Formula Weight 326,42                         |
| Cat.-no. 2076   | 2-[[9-Oxodecyl]oxy]carbonyl]benzoic acid (Mono-(9-oxodecyl)-phthalate)  |
|  | Int. no. A770<br>CAS<br>Molecular Formula $C_{18}H_{24}O_5$<br>Formula Weight 320,38                            |
| Cat.-no. 2077   | 2-[[9-Oxodecyl]oxy]carbonyl] $^{(2}H_4)$ benzoic acid (Mono-(9-oxodecyl)-(3,4,5,6- $^2H_4$ )-phthalate)         |
|  | Int. no. A772<br>CAS<br>Molecular Formula $C_{18}H_{20}D_4O_5$<br>Formula Weight 324,40                         |
| Cat.-no. 2078   | 2-[[9-Carboxynonyl]oxy]carbonyl]benzoic acid (Mono-(9-carboxynonyl)-phthalate)                                  |
|  | Int. no. A741<br>CAS 2042194-73-8<br>Molecular Formula $C_{18}H_{24}O_6$<br>Formula Weight 336,38               |

|   |  |
|---|--|
| Cat.-no. 2079   | 2-[[[(9-Carboxynonyl)oxy]carbonyl]}( <sup>2</sup> H <sub>4</sub> )benzoic acid (Mono-(9-carboxynonyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate) |
|    | Int. no. A742<br>CAS<br>Molecular Formula C <sub>18</sub> H <sub>20</sub> D <sub>4</sub> O <sub>6</sub><br>Formula Weight 340,40                         |
| Cat.-no. 2080   | 2-[(Benzyloxy)carbonyl]benzoic acid (Monobenzyl-phthalate)   |
|    | Int. no. A695<br>CAS 2528-16-7<br>Molecular Formula C <sub>15</sub> H <sub>12</sub> O <sub>4</sub><br>Formula Weight 256,25                              |
| Cat.-no. 2081   | Monotridecyl-phthalate   |
|    | Int. no. P89<br>CAS 21577-81-1<br>Molecular Formula C <sub>21</sub> H <sub>32</sub> O <sub>4</sub><br>Formula Weight 348,48                              |
| Cat.-no. 2082   | 2-[[[(8-Methylnonyl)oxy]carbonyl]benzoic acid (Monoisodecyl-phthalate)   |
|  | Int. no. P100<br>CAS 69725-01-5<br>Molecular Formula C <sub>18</sub> H <sub>26</sub> O <sub>4</sub><br>Formula Weight 306,40                             |
| Cat.-no. 2083   | Mono-(12-hydroxytridecyl)-phthalate  |
|  | Int. no. A706<br>CAS<br>Molecular Formula C <sub>21</sub> H <sub>32</sub> O <sub>5</sub><br>Formula Weight 364,48  |
| Cat.-no. 2084   | Mono-(12-hydroxytridecyl)-(3,4,5,6- <sup>2</sup> H <sub>4</sub> )-phthalate  |
|  | Int. no. A709<br>CAS<br>Molecular Formula C <sub>21</sub> H <sub>28</sub> D <sub>4</sub> O <sub>5</sub><br>Formula Weight 368,50                         |

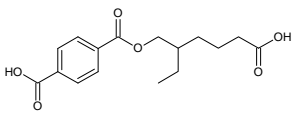
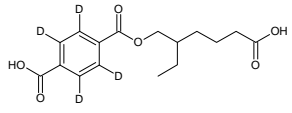
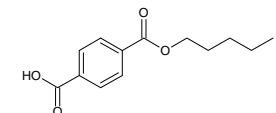
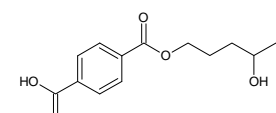
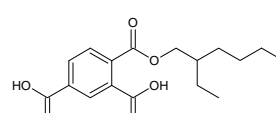
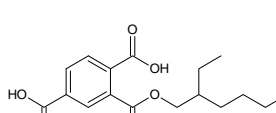


## CATALOG Phthalates

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|---|--|
| Cat.-no. 2085   | 2-[(12-Oxotridecanoxy)carbonyl]benzoic acid (Mono-(12-oxotridecanyl)-phthalate)                                  |
|    | Int. no. A705<br>CAS<br>Molecular Formula $C_{21}H_{30}O_5$<br>Formula Weight 362,46                             |
| Cat.-no. 2086   | 2-[(12-Oxotridecanoxy)carbonyl] ( $^2H_4$ )benzoic acid (Mono-(12-oxotridecanyl)- (3,4,5,6- $^2H_4$ )-phthalate) |
|    | Int. no. A707<br>CAS<br>Molecular Formula $C_{21}H_{26}D_4O_5$<br>Formula Weight 366,48                          |
| Cat.-no. 2087   | 2-[(7-Methyloctyl)oxy]carbonyl}benzoic acid (Monoisononyl-phthalate)   |
|   | Int. no. A721<br>CAS 106610-61-1<br>Molecular Formula $C_{17}H_{24}O_4$<br>Formula Weight 292,37                 |
| Cat.-no. 2088   | Bis-(2-ethylhexyl)-1,2,3,4,5,6- $^{13}C_6$ -phthalate  |
|  | Int. no. A731<br>CAS 1675732-80-5<br>Molecular Formula $^{13}C_6C_{18}H_{38}O_4$<br>Formula Weight 396,51        |

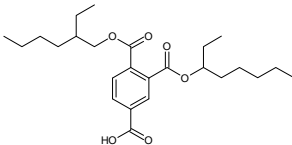
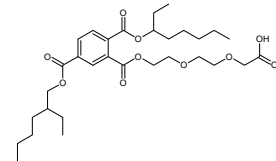
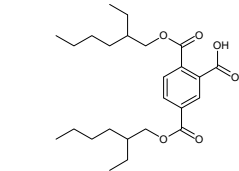
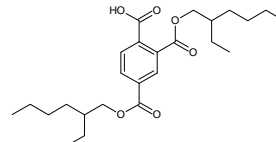


## CATALOG Terephthalates / Trimellitates

|   |   |
|---|---|
| Cat.-no. 3001   | 4-[[{(5-Carboxy-2-ethylpentyl)oxy}carbonyl]benzoic acid (Mono-(2-ethyl-5-carboxypentyl)-terephthalate)  |
|    | Int. no. F272<br>CAS 1684398-42-2<br>Molecular Formula $C_{16}H_{20}O_6$<br>Formula Weight 308,33   |
| Cat.-no. 3002   | 4-[[{(5-Ccarboxy-2-ethylpentyl)oxy}carbonyl]}( <sup>2</sup> H <sub>4</sub> )benzoic acid (Mono-(2-ethyl-5-carboxypentyl)-(2,3,5,6- <sup>2</sup> H <sub>4</sub> )-terephthalate) |
|    | Int. no. F279<br>CAS<br>Molecular Formula $C_{16}H_{16}D_4O_6$<br>Formula Weight 312,35   |
| Cat.-no. 3003   | 4-[(pentyloxy)carbonyl]benzoic acid (Mono-n-pentyl terephthalate)   |
|    | Int. no. JW125<br>CAS 1819-30-3<br>Molecular Formula $C_{13}H_{16}O_4$<br>Formula Weight 236,27   |
| Cat.-no. 3004   | 4-[[{(4-Hydroxypentyl)oxy}carbonyl]benzoic acid (Mono-(4-hydroxypentyl)-terephthalate)  |
|  | Int. no. F356<br>CAS<br>Molecular Formula $C_{13}H_{16}O_5$<br>Formula Weight 252,26  |
| Cat.-no. 3005   | 4-[[{(2-Ethylhexyl)oxy}carbonyl]benzene-1,3-dicarboxylic acid (1,2,4-Benzenetricarboxylic acid, 1-(2-ethylhexyl) ester)   |
|  | Int. no. A636<br>CAS 61137-09-5<br>Molecular Formula $C_{17}H_{22}O_6$<br>Formula Weight 322,35   |
| Cat.-no. 3006   | 2-[[{(2-Ethylhexyl)oxy}carbonyl]benzene-1,4-dicarboxylic acid (1,2,4-Benzenetricarboxylic acid, 2-(2-ethylhexyl) ester)   |
|  | Int. no. A633, 637<br>CAS 63468-08-6<br>Molecular Formula $C_{17}H_{22}O_6$<br>Formula Weight 322,35  |



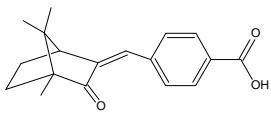
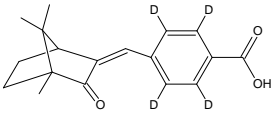
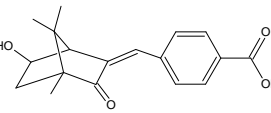
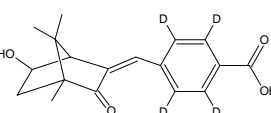
## CATALOG Terephthalates / Trimellitates

|   |  |
|---|--|
| Cat.-no. 3007   | 1,2,4-Benzenetricarboxylic acid, 1,2-di-(2-ethylhexyl) ester   |
|    | Int. no. ZK53.1<br>CAS 63468-09-7<br>Molecular Formula $C_{25}H_{38}O_6$<br>Formula Weight 434,57    |
| Cat.-no. 3008   | 1,2,4-Benzenetricarboxylic acid, 2-[2-[2-(carboxymethoxy)ethoxy]ethyl]1,4-bis(2-ethylhexyl)ester     |
|    | Int. no. P266<br>CAS 2204246-75-1<br>Molecular Formula $C_{31}H_{48}O_{10}$<br>Formula Weight 580,71 |
| Cat.-no. 3009   | 1,2,4-Benzenetricarboxylic acid, 1,4-di-(2-ethylhexyl) ester   |
|   | Int. no. P569<br>CAS 63468-10-0<br>Molecular Formula $C_{25}H_{38}O_6$<br>Formula Weight 434,57      |
| Cat.-no. 3010   | 1,2,4-Benzenetricarboxylic acid, 2,4-di-(2-ethylhexyl) ester   |
|  | Int. no. P570<br>CAS 63468-11-1<br>Molecular Formula $C_{25}H_{38}O_6$<br>Formula Weight 434,57      |



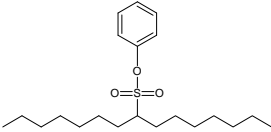
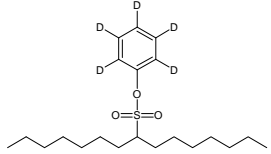
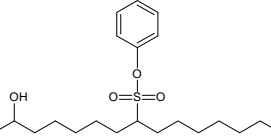
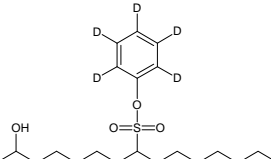


## CATALOG Camphor derivatives

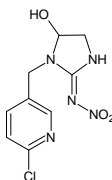
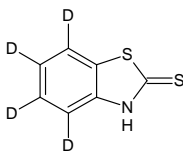
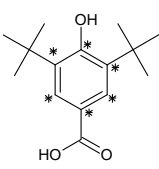
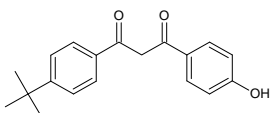
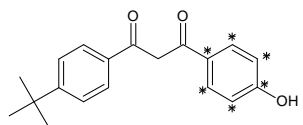
|   |   |
|---|---|
| Cat.-no. 4001   | 4-[(Z)-(4,7,7-Trimethyl-3-oxobicyclo[2.2.1]hept-2-ylidene)methyl]benzoic acid (3-(4-Carboxybenzylidene)-campher)  |
|    | Int. no. P111<br>CAS 68801-01-4<br>Molecular Formula $C_{18}H_{20}O_3$<br>Formula Weight 284,35   |
| Cat.-no. 4002   | 4-[(Z)-(4,7,7-Trimethyl-3-oxobicyclo[2.2.1]hept-2-ylidene)methyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (3-(4-Carboxybenzylidene)-campher-d4)                    |
|    | Int. no. P165<br>CAS<br>Molecular Formula $C_{18}H_{16}D_4O_3$<br>Formula Weight 288,37   |
| Cat.-no. 4003   | 4-[(Z)-(6-Hydroxy-4,7,7-trimethyl-3-oxobicyclo[2.2.1]hept-2-ylidene)methyl]benzoic acid (3-(4-Carboxybenzylidene)-6-hydroxycampher)                                 |
|   | Int. no. P224<br>CAS 915796-58-6<br>Molecular Formula $C_{18}H_{20}O_4$<br>Formula Weight 300,35  |
| Cat.-no. 4004   | 4-[(Z)-(6-Hydroxy-4,7,7-trimethyl-3-oxobicyclo[2.2.1]hept-2-ylidene)methyl] <sup>(2)H<sub>4</sub></sup> benzoic acid (3-(4-Carboxybenzylidene)-6-hydroxycampher-d4) |
|  | Int. no. P232<br>CAS<br>Molecular Formula $C_{18}H_{16}D_4O_4$<br>Formula Weight 304,37   |



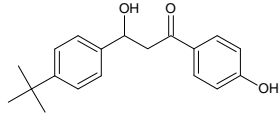
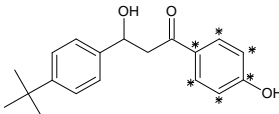
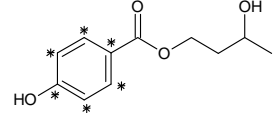
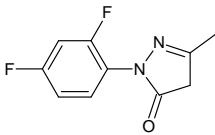
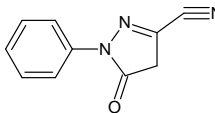
## CATALOG Alkylphenylsulfonates

|   |  |
|---|--|
| Cat.-no. 5001   | Phenyl pentadecane-8-sulfonate (8-Pentadecanesulfonic acid, phenylester)                                       |
|    | Int. no. P467<br>CAS 204707-66-4<br>Molecular Formula $C_{12}H_{36}O_3S$<br>Formula Weight 368,57              |
| Cat.-no. 5002   | ( $^2H_5$ )Phenyl pentadecane-8-sulfonate (8-Pentadecanesulfonic acid, phenylester-ring-d5)                    |
|    | Int. no. P469<br>CAS<br>Molecular Formula $C_{21}H_{31}D_5O_3S$<br>Formula Weight 373,60                       |
| Cat.-no. 5003   | Phenyl 2-hydroxypentadecane-8-sulfonate (2-Hydroxy-8-pentadecanesulfonic acid, phenylester)                    |
|   | Int. no. P555<br>CAS<br>Molecular Formula $C_{21}H_{36}O_4S$<br>Formula Weight 384,57                          |
| Cat.-no. 5004   | ( $^2H_5$ )Phenyl 2-hydroxypentadecane-8-sulfonate (2-Hydroxy-8-pentadecanesulfonic acid, phenylester-ring-d5) |
|  | Int. no. P556<br>CAS<br>Molecular Formula $C_{21}H_{31}D_5O_4S$<br>Formula Weight 389,60                       |

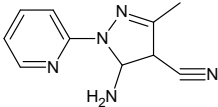
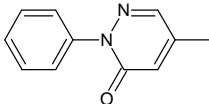
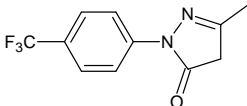
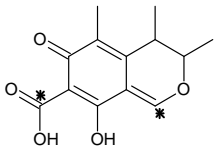


|   |  |
|---|--|
| Cat.-no. 6001   | 3-[(6-Chloropyridin-3-yl)methyl]-2-(nitroimino)imidazolidin-4-ol (1-(6-Chloropyridin-3-yl-methyl)-2-nitrimino-5-hydroxyimidazolidine; 5-OH-Imidacloprid)                       |
|    | Int. no. P759<br>CAS 155802-61-2<br>Molecular Formula $C_9H_{10}ClN_5O_3$<br>Formula Weight 271,66   |
| Cat.-no. 6002   | (4,5,6,7- $^2H_4$ )-1,3-Benzothiazole-2(3H)-thione (2-Mercaptobenzothiazole-(3,4,5,6- $^2H_4$ ))   |
|    | Int. no. P118<br>CAS 1346598-64-8<br>Molecular Formula $C_7HD_4NS_2$<br>Formula Weight 171,28  |
| Cat.-no. 6003   | $^{13}C_6$ -3,5-Di-( <i>tert.</i> -butyl)-4-hydroxybenzoic acid  |
|  | Int. no. P360 UK<br>CAS<br>Molecular Formula $^{13}C_6C_9H_{22}O_3$<br>Formula Weight 256,27   |
| Cat.-no. 6004   | 1-(4- <i>tert.</i> -Butylphenyl)-3-(4-hydroxyphenyl)propane-1,3-dione (1-(4- <i>tert.</i> -Butylphenyl)-3-(4'-hydroxyphenyl)propane-1,3-dione)                                 |
|  | Int. no. TN72/4<br>CAS 132944-34-4<br>Molecular Formula $C_{19}H_{20}O_3$<br>Formula Weight 296,36   |
| Cat.-no. 6005   | 1-(4- <i>tert.</i> -Butylphenyl)-3-[4-hydroxy( $^{13}C_6$ )phenyl]propane-1,3-dione (1-(4- <i>tert.</i> -Butylphenyl)-3-(4'-hydroxyphenyl-ring- $^{13}C_6$ )propane-1,3-dione) |
|  | Int. no. TN85/4<br>CAS<br>Molecular Formula $^{13}C_6C_{13}H_{20}O_3$<br>Formula Weight 302,32   |

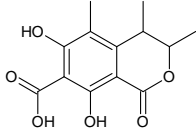


|   |  |
|---|--|
| Cat.-no. 6006   | 3-(4- <i>tert</i> -Butylphenyl)-3-hydroxy-1-(4-hydroxyphenyl)propan-1-one<br>(1-(4- <i>tert</i> -Butylphenyl)-3-(4-hydroxyphenyl)propane-3-one-1-ol)                                 |
|    | Int. no. JW72/2<br>CAS<br>Molecular Formula $C_{19}H_{22}O_3$<br>Formula Weight 298,38   |
| Cat.-no. 6007   | 3-(4- <i>tert</i> -Butylphenyl)-3-hydroxy-1-[4-hydroxy( $^{13}C_6$ )phenyl]propan-1-one<br>(1-(4- <i>tert</i> -butylphenyl)-3-(4-hydroxyphenyl-ring- $^{13}C_6$ )propane-3-one-1-ol) |
|    | Int. no. JW85<br>CAS<br>Molecular Formula $^{13}C_6C_{13}H_{22}O_3$<br>Formula Weight 304,33   |
| Cat.-no. 6008   | 3-Hydroxybutyl 4-hydroxy( $^{13}C_6$ )benzoate (Benzoic acid, 4-hydroxy, 3-hydroxybutyl ester, ring $^{13}C_6$ )   |
|  | Int. no. F331<br>CAS<br>Molecular Formula $^{13}C_6C_5H_{14}O_4$<br>Formula Weight 216,18  |
| Cat.-no. 6009   | 2-(2,4-Difluorophenyl)-5-methyl-2,4-dihydro-3H-pyrazol-3-one (2-(2,4-Difluoro-phenyl)-5-methyl-2,4-dihydro-pyrazol-3-one)  |
|  | Int. no. A248<br>CAS<br>Molecular Formula $C_{10}H_8F_2N_2O$<br>Formula Weight 210,18  |
| Cat.-no. 6010   | 5-Oxo-1-phenyl-4,5-dihydro-1H-pyrazole-3-carbonitrile  |
|  | Int. no. V3<br>CAS<br>Molecular Formula $C_{10}H_7N_3O$<br>Formula Weight 185,18   |

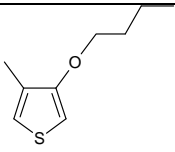
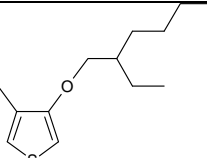
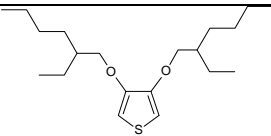
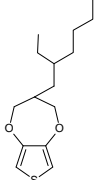
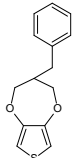
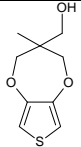



|  |  |
|--|--|
| Cat.-no. 6011  | 5-Amino-3-methyl-1-(pyridin-2-yl)-4,5-dihydro-1 <i>H</i> -pyrazole-4-carbonitrile  |
|   | Int. no. A251<br>CAS 76982-32-6<br>Molecular Formula C <sub>10</sub> H <sub>9</sub> N <sub>5</sub><br>Formula Weight 199,21  |
| Cat.-no. 6012  | 5-Methyl-2-phenylpyridazin-3(2 <i>H</i> )-one  |
|   | Int. no. F4<br>CAS 68143-02-2<br>Molecular Formula C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O<br>Formula Weight 186,21   |
| Cat.-no. 6013  | 5-Methyl-2-[4-(trifluoromethyl)phenyl]-2,4-dihydro-3 <i>H</i> -pyrazol-3-one   |
|   | Int. no. F3<br>CAS 118031-38-2<br>Molecular Formula C <sub>11</sub> H <sub>9</sub> F <sub>3</sub> N <sub>2</sub> O<br>Formula Weight 242,20  |
| Cat.-no. 6014  | 8-Hydroxy-3,4,5-trimethyl-6-oxo(1- <sup>13</sup> C)-4,6-dihydro-3 <i>H</i> -isochromene-7-( <sup>13</sup> C)carboxylic acid (4,6-Dihydro-8-hydroxy-3,4,5-trimethyl-6-oxo(1- <sup>13</sup> C)-3 <i>H</i> -2-benzopyran-7-( <sup>13</sup> C)carboxylic acid; <sup>13</sup> C <sub>2</sub> -Citrinin) |
|   | Int. no. P692<br>CAS<br>Molecular Formula C <sub>11</sub> <sup>13</sup> C <sub>2</sub> H <sub>14</sub> O <sub>5</sub><br>Formula Weight 252,23   |
| Cat.-no. 6015  | (1,5- <sup>13</sup> C <sub>2</sub> )-[2,2,3,5,5,6,6,7,7,9,9,9]-Dodecafluoro-4,8-dioxanonanoic acid ammonium salt ( <sup>13</sup> C <sub>2</sub> -Adona)  |
| CF <sub>3</sub> O(CF <sub>2</sub> ) <sub>2</sub> <sup>13</sup> CF <sub>2</sub> OCHF <sub>CF<sub>2</sub><sup>13</sup>COO<sup>-</sup><br/>NH<sub>4</sub><sup>+</sup></sub> | Int. no. P397<br>CAS<br>Molecular Formula <sup>13</sup> C <sub>2</sub> C <sub>6</sub> H <sub>5</sub> F <sub>12</sub> NO <sub>4</sub><br>Formula Weight 397,07  |
| Cat.-no. 6016  | (1- <sup>13</sup> C)-[2,2,3,5,5,6,6,7,7,9,9,9]-Dodecafluoro-4,8-dioxanonanoic acid ammonium salt ( <sup>13</sup> C <sub>1</sub> -Adona)  |
| CF <sub>3</sub> O(CF <sub>2</sub> ) <sub>2</sub> CF <sub>2</sub> OCHF <sub>CF<sub>2</sub><sup>13</sup>COO<sup>-</sup><br/>NH<sub>4</sub><sup>+</sup></sub>               | Int. no. P166<br>CAS<br>Molecular Formula <sup>13</sup> CC <sub>7</sub> H <sub>5</sub> F <sub>12</sub> NO <sub>4</sub><br>Formula Weight 398,08  |

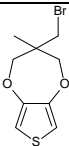
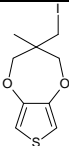
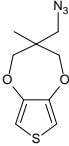
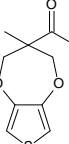
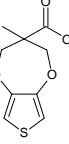
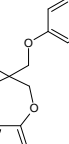


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| Cat.-no. 6017   | 6,8-Dihydroxy-3,4,5-trimethyl-1-oxo-3,4-dihydro-1 <i>H</i> -isochromene-7-carboxylic acid (3,4-Dihydrocitrinon)               |
|  | Int. no. P797<br>CAS 16051-38-0<br>Molecular Formula C <sub>13</sub> H <sub>14</sub> O <sub>6</sub><br>Formula Weight 266,247 |


 CATALOG Thiophenes / Thienyl-substituted Hetero-  
aromatics

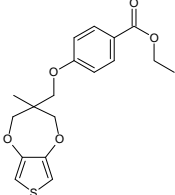
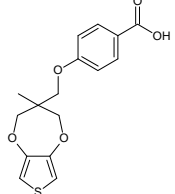
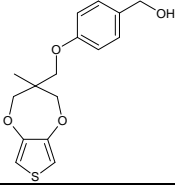
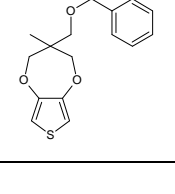
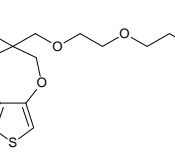
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| <p>Cat.-no. 7001</p>    | <p>3-Butoxy-4-methylthiophene</p> <p>Int. no. F248</p> <p>CAS 124407-47-2</p> <p>Molecular Formula <math>C_9H_{14}OS</math></p> <p>Formula Weight 170,27</p>   |
| <p>Cat.-no. 7002</p>    | <p>2-Ethylhexyl 4-methylthiophen-3-yl ether (3-(2-Ethylhexyloxy)-4-methylthiophene)</p> <p>Int. no. F253</p> <p>CAS 163530-53-8</p> <p>Molecular Formula <math>C_{13}H_{22}OS</math></p> <p>Formula Weight 226,38</p>                                    |
| <p>Cat.-no. 7003</p>   | <p>3,4-Bis(2-ethylhexyloxy)thiophene</p> <p>Int. no. F182</p> <p>CAS</p> <p>Molecular Formula <math>C_{20}H_{36}O_2S</math></p> <p>Formula Weight 340,56</p>   |
| <p>Cat.-no. 7004</p>  | <p>3-(2-Ethylhexyl)-3,4-dihydro-2<i>H</i>-thieno[3,4-<i>b</i>][1,4]dioxepine (3,4-(2(2-Ethylhexyl)-1,3-propylendioxy)-thiophene)</p> <p>Int. no. F231</p> <p>CAS</p> <p>Molecular Formula <math>C_{15}H_{24}O_2S</math></p> <p>Formula Weight 268,41</p> |
| <p>Cat.-no. 7005</p>  | <p>3-Benzyl-3,4-dihydro-2<i>H</i>-thieno[3,4-<i>b</i>][1,4]dioxepine (3,4-(2-Benzyl-1,3-propylendioxy)thiophen)</p> <p>Int. no. F61</p> <p>CAS 847606-96-6</p> <p>Molecular Formula <math>C_{14}H_{14}O_2S</math></p> <p>Formula Weight 246,32</p>       |
| <p>Cat.-no. 7006</p>  | <p>(3-Methyl-3,4-dihydro-2<i>H</i>-thieno[3,4-<i>b</i>][1,4]dioxepin-3-yl)methanol (ProDOT-Me, <math>CH_2OH</math>)</p> <p>Int. no. JW40</p> <p>CAS 426263-16-3</p> <p>Molecular Formula <math>C_9H_{12}O_3S</math></p> <p>Formula Weight 200,25</p>     |

 CATALOG Thiophenes / Thienyl-substituted Hetero-  
aromatics

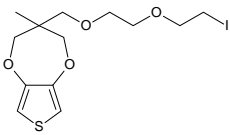
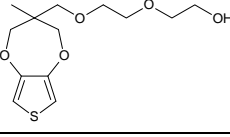
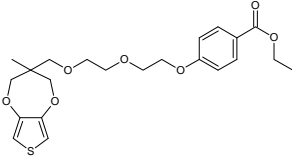
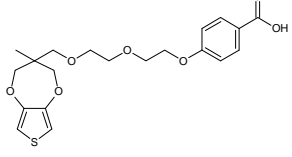
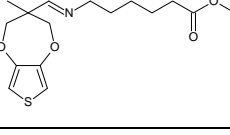
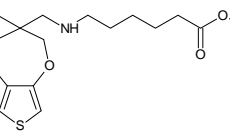
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| Cat.-no. 7007   | 3-(Bromomethyl)-3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (ProDOT-Me,CH <sub>2</sub> Br)                           |
|    | Int. no. JW75<br>CAS 2193065-01-7<br>Molecular Formula C <sub>9</sub> H <sub>11</sub> BrO <sub>2</sub> S<br>Formula Weight 263,15              |
| Cat.-no. 7008   | 3-(Iodomethyl)-3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (ProDOT-Me,CH <sub>2</sub> I)                             |
|    | Int. no. JW99<br>CAS<br>Molecular Formula C <sub>9</sub> H <sub>11</sub> IO <sub>2</sub> S<br>Formula Weight 310,15                            |
| Cat.-no. 7009   | (3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methyl azide (ProDOT-Me,CH <sub>2</sub> N <sub>3</sub> )            |
|   | Int. no. JW103<br>CAS 189079-50-7<br>Molecular Formula C <sub>9</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub> S<br>Formula Weight 225,27 |
| Cat.-no. 7010   | 3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine-3-carbaldehyde (ProDOT-Me,HCO)   |
|  | Int. no. JW104<br>CAS<br>Molecular Formula C <sub>9</sub> H <sub>10</sub> O <sub>3</sub> S<br>Formula Weight 198,24                            |
| Cat.-no. 7011   | 3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine-3-carboxylic acid (ProDOT-Me,CO <sub>2</sub> H)                          |
|  | Int. no. JW114<br>CAS 2101852-96-2<br>Molecular Formula C <sub>9</sub> H <sub>10</sub> O <sub>4</sub> S<br>Formula Weight 214,24               |
| Cat.-no. 7012   | 3-Methyl-3-(phenoxymethyl)-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (ProDOT-Me,CH <sub>2</sub> Ph)                         |
|  | Int. no. JW101<br>CAS<br>Molecular Formula C <sub>15</sub> H <sub>16</sub> O <sub>3</sub> S<br>Formula Weight 276,36                           |



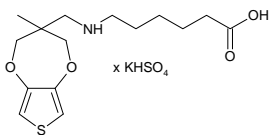
 CATALOG Thiophenes / Thienyl-substituted Hetero-  
aromatics

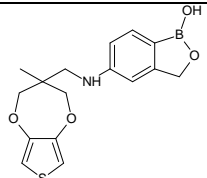
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| Cat.-no. 7013   | Ethyl 4-[(3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methoxy]benzoate       |
|    | Int. no. JW115<br><br>CAS<br>Molecular Formula $C_{18}H_{20}O_5S$<br>Formula Weight 348,41                 |
| Cat.-no. 7014   | 4-[(3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methoxy]benzoic acid         |
|    | Int. no. JW116<br><br>CAS<br>Molecular Formula $C_{16}H_{16}O_5S$<br>Formula Weight 320,36                 |
| Cat.-no. 7015   | {4-[(3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methoxy]phenyl}methanol     |
|  | Int. no. JW119<br><br>CAS<br>Molecular Formula $C_{16}H_{18}O_4S$<br>Formula Weight 306,38                 |
| Cat.-no. 7016   | 3-[(Benzyloxy)methyl]-3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine                |
|  | Int. no. JW102<br><br>CAS 732296-06-9<br>Molecular Formula $C_{16}H_{18}O_3S$<br>Formula Weight 290,38     |
| Cat.-no. 7017   | 3-[[2-(2-Chloroethoxy)ethoxy]methyl]-3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine |
|  | Int. no. JW42<br><br>CAS 1426388-75-1<br>Molecular Formula $C_{14}H_{19}ClO_4S$<br>Formula Weight 306,81   |

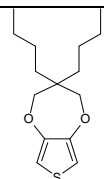
 CATALOG Thiophenes / Thienyl-substituted Hetero-  
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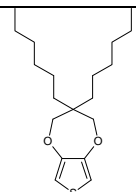
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| Cat.-no. 7018   | 3-[[2-(2-Iodoethoxy)ethoxy]methyl]-3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine                            |
|    | Int. no. JW43<br>CAS 1426388-76-2<br>Molecular Formula C <sub>13</sub> H <sub>19</sub> IO <sub>4</sub> S<br>Formula Weight 398,26   |
| Cat.-no. 7019   | 2-{2-[(3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methoxy]ethoxy}ethanol                             |
|    | Int. no. JW45<br>CAS 1426388-78-4<br>Molecular Formula C <sub>13</sub> H <sub>20</sub> O <sub>5</sub> S<br>Formula Weight 288,36    |
| Cat.-no. 7020   | 4-[2-[2-[(3,4-dihydro-3-methyl-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methoxy]ethoxy]ethoxy]-benzoic acid ethyl ester |
|   | Int. no. JW62<br>CAS 1698945-49-1<br>Molecular Formula C <sub>22</sub> H <sub>28</sub> O <sub>7</sub> S<br>Formula Weight 436,52    |
| Cat.-no. 7021   | 4-[2-[2-[(3,4-dihydro-3-methyl-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methoxy]ethoxy]ethoxy]-benzoic acid             |
|  | Int. no. JW63<br>CAS 1801840-89-0<br>Molecular Formula C <sub>20</sub> H <sub>24</sub> O <sub>7</sub> S<br>Formula Weight 408,47    |
| Cat.-no. 7022   | Methyl 6-[[ <i>(E)</i> -(3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methylidene]amino]hexanoate      |
|  | Int. no. JW94<br>CAS<br>Molecular Formula C <sub>16</sub> H <sub>23</sub> NO <sub>4</sub> S<br>Formula Weight 325,42                |
| Cat.-no. 7023   | Methyl 6-[[3-methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl)methyl]amino]hexanoate                         |
|  | Int. no. JW111<br>CAS<br>Molecular Formula C <sub>16</sub> H <sub>25</sub> NO <sub>4</sub> S<br>Formula Weight 327,44               |

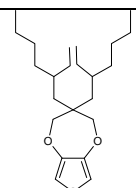
**IDM** CATALOG Thiophenes / Thienyl-substituted Hetero-  
aromatics

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| Cat.-no. 7024   | 3-(Methylamino-N-pentyl-5'-carboxylic acid)-3,4-dihydro-3-methyl-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]-dioxepine potassium hydrogen sulfate adduct |
|  | Int. no. JW105/1<br>CAS<br>Molecular Formula $C_{15}H_{24}KNO_8S_2$<br>Formula Weight 449,59   |

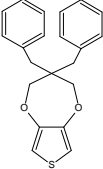
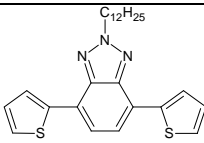
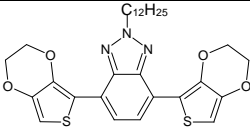
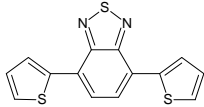
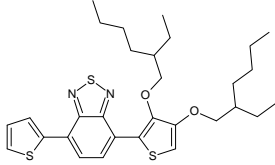
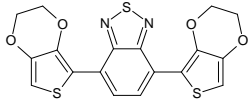
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| Cat.-no. 7025   | 2-[2-[(3-Methyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepin-3-yl) 5-amino]-2-methylene-oxa} -phenylboronic acid) |
|  | Int. no. P52<br>CAS<br>Molecular Formula $C_{16}H_{18}BNO_4S$<br>Formula Weight 331,20   |

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| Cat.-no. 7026  | 3,3-Dibutyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (3,4-(2,2-Dibutyl-1,3-propylendioxy)thiophen) |
|  | Int. no. F205<br>CAS<br>Molecular Formula $C_{15}H_{24}O_2S$<br>Formula Weight 268,42                                  |

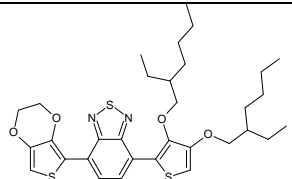
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| Cat.-no. 7027   | 3,3-Dihexyl-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (3,4-(2,2-Dihexyl-1,3-propylendioxy)thiophen) |
|  | Int. no. F214<br>CAS<br>Molecular Formula $C_{19}H_{32}O_2S$<br>Formula Weight 324,52                                  |

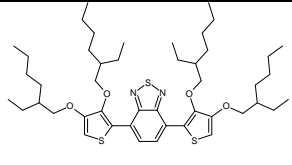
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| Cat.-no. 7028   | 3,3-Bis(2-ethylhexyl)-3,4-dihydro-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (3,4-{2,2-Di(2-ethylhexyl)-1,3-propylendioxy}thiophen) |
|  | Int. no. F237<br>CAS<br>Molecular Formula $C_{23}H_{40}O_2S$<br>Formula Weight 380,63   |

**IDM** CATALOG Thiophenes / Thienyl-substituted Hetero-  
aromatics

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| Cat.-no. 7029   | 3,4-Dihydro-3,3-bis(phenylmethyl)-2 <i>H</i> -thieno[3,4- <i>b</i> ][1,4]dioxepine (3,4-(2,2-Dibenzyl-1,3-propylendioxy)thiophen)                            |
|    | Int. no. F55<br>CAS 406940-42-9<br>Molecular Formula C <sub>21</sub> H <sub>20</sub> O <sub>2</sub> S<br>Formula Weight 336,45                               |
| Cat.-no. 7030   | 2-Dodecyl-4,7-di-2-thienyl-2 <i>H</i> -benzotriazole   |
|    | Int. no. F220<br>CAS 1202742-65-1<br>Molecular Formula C <sub>26</sub> H <sub>33</sub> N <sub>3</sub> O <sub>2</sub><br>Formula Weight 451,69                |
| Cat.-no. 7031   | 4,7-Bis(2,3-dihydrothieno[3,4- <i>b</i> ]-1,4-dioxin-5-yl)-2-dodecyl-2 <i>H</i> -benzotriazole   |
|   | Int. no. F244<br>CAS 1094416-18-8<br>Molecular Formula C <sub>30</sub> H <sub>37</sub> N <sub>3</sub> O <sub>4</sub> S <sub>2</sub><br>Formula Weight 567,76 |
| Cat.-no. 7032   | 4,7-Di-2-thienyl-2,1,3-benzothiadiazole  |
|  | Int. no. F256A<br>CAS 165190-76-1<br>Molecular Formula C <sub>14</sub> H <sub>8</sub> N <sub>2</sub> S <sub>3</sub><br>Formula Weight 300,42                 |
| Cat.-no. 7033   | 4-(3,4-Di(2-ethylhexyloxy)thiophen-2-yl)-7-(thiophen-2-yl)-2,1,3-benzothiadiazole  |
|  | Int. no. F258<br>CAS<br>Molecular Formula C <sub>30</sub> H <sub>40</sub> N <sub>2</sub> O <sub>2</sub> S <sub>3</sub><br>Formula Weight 556,85              |
| Cat.-no. 7034   | 4,7-Di(2,3-dihydro-thieno[3,4- <i>b</i> ][1,4]dioxin-5-yl)benzo[1,2,5]thiadiazole  |
|  | Int. no. F245B<br>CAS 240823-06-7<br>Molecular Formula C <sub>18</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>3</sub><br>Formula Weight 416,49 |

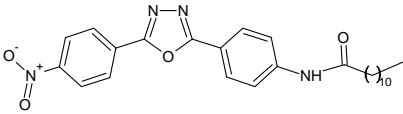
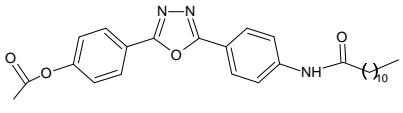
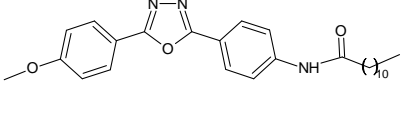
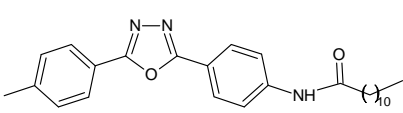
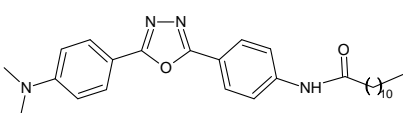
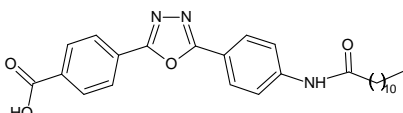
**IDM** CATALOG Thiophenes / Thienyl-substituted Hetero-  
aromatics

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| Cat.-no. 7035   | 4-(3,4-Di(2-ethylhexyloxy)thiophen-2-yl)-7-(3,4-ethylendioxythiophen-2-yl)-2,1,3-benzothiadiazole |
|  | Int. no. F264<br><br>CAS<br>Molecular Formula $C_{32}H_{42}N_2O_4S_3$<br>Formula Weight 614,88    |

|   |  |
|---|--|
| Cat.-no. 7036   | 4,7-Bis[3,4-bis[(2-ethylhexyl)oxy]-2-thienyl]-2,1,3-benzothiadiazole                                       |
|  | Int. no. F259<br><br>CAS 933046-30-1<br>Molecular Formula $C_{46}H_{72}N_2O_4S_3$<br>Formula Weight 813,27 |



## CATALOG Aromatic 1,3,4-Oxadiazoles

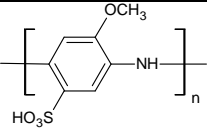
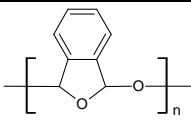
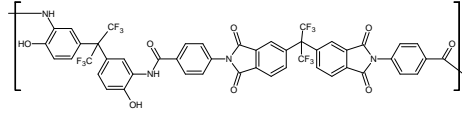
|   |  |
|---|--|
| Cat.-no. 8001   | N-[4-[5-(4-Nitrophenyl)-1,3,4-oxadiazol-2-yl]phenyl]-dodecanamide                                    |
|    | Int. no. AF51<br>CAS 191328-61-7<br>Molecular Formula $C_{26}H_{32}N_2O_4$<br>Formula Weight 464,56  |
| Cat.-no. 8002   | N-[4-[5-[4-(Acetyloxy)phenyl]-1,3,4-oxadiazol-2-yl]phenyl]-dodecanamide                              |
|    | Int. no. AF61<br>CAS 216483-19-1<br>Molecular Formula $C_{28}H_{35}N_3O_4$<br>Formula Weight 477,60  |
| Cat.-no. 8003   | N-[4-[5-(4-Methoxyphenyl)-1,3,4-oxadiazol-2-yl]phenyl]-dodecanamide                                  |
|   | Int. no. AF117<br>CAS 216483-20-4<br>Molecular Formula $C_{27}H_{35}N_3O_3$<br>Formula Weight 449,59 |
| Cat.-no. 8004   | N-[4-[5-(4-Methylphenyl)-1,3,4-oxadiazol-2-yl]phenyl]-dodecanamide                                   |
|  | Int. no. AF89<br>CAS 191328-59-3<br>Molecular Formula $C_{27}H_{35}N_3O_2$<br>Formula Weight 433,59  |
| Cat.-no. 8005   | N-[4-[5-[4-(Dimethylamino)phenyl]-1,3,4-oxadiazol-2-yl]phenyl]-dodecanamide                          |
|  | Int. no. AF148<br>CAS 216483-21-5<br>Molecular Formula $C_{28}H_{38}N_4O_2$<br>Formula Weight 462,63 |
| Cat.-no. 8006   | 4-[5-[4-(1-Oxododecyl)amino]phenyl]-1,3,4-oxadiazol-2-yl]-benzoic acid                               |
|  | Int. no. A63<br>CAS 191328-57-1<br>Molecular Formula $C_{27}H_{33}N_3O_4$<br>Formula Weight 463,57   |



## CATALOG Aromatic 1,3,4-Oxadiazoles



# CATALOG Polymers

|   |  |
|---|--|
| Cat.-no. 9001   | Poly(anilinesulfonic acid)   |
|  | Int. no. TN4<br>CAS 167860-86-8  |
| Cat.-no. 9002   | Poly(phthalaldehyd)  |
|  | Int. no. PPA<br>CAS 25750-62-3   |
| Cat.-no. 9003   | Poly[(1,3-dihydro-1,3-dioxo-2 <i>H</i> -isoindole-2,5-diyl)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](1,3-dihydro-1,3-dioxo-2 <i>H</i> -isoindole-5,2-diyl)-1,4-phenylenecarbonylimino(6-hydroxy-1,3-phenylene)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](4-hydroxy-1,3-phenylene)iminocarbonyl-1,4-phenylene] |
|  | Int. no. KL13<br>CAS 129197-50-8   |