

別添4 ダイオキシン類各異性体の試験結果及び毒性当量  
(1/5)

(異性体の試験結果の単位：ng/kg、毒性当量の単位：ng-TEQ/kg)

| 分類                  | 異性体名                        | TEF           | 魚油     |        |        |        |        |
|---------------------|-----------------------------|---------------|--------|--------|--------|--------|--------|
|                     |                             |               | 1      | 2      | 3      | 4      | 5      |
| PCDDs               | 2,3,7,8-TeCDD               | 1             | 0.25   | 0.16   | 0.26   | 0.79   | 0.66   |
|                     | 1,2,3,7,8-PeCDD             | 1             | ND     | 0.07   | ND     | ND     | ND     |
|                     | 1,2,3,4,7,8-HxCDD           | 0.1           | ND     | 0.04 * | ND     | 0.07 * | 0.34   |
|                     | 1,2,3,6,7,8-HxCDD           | 0.1           | 0.40   | 0.22   | 0.39   | 1.6    | 0.99   |
|                     | 1,2,3,7,8,9-HxCDD           | 0.1           | 0.12   | 0.07 * | 0.12   | 0.44   | 0.13   |
|                     | 1,2,3,4,6,7,8-HpCDD         | 0.01          | 0.24   | 0.14   | 0.25   | 0.69   | 1.0    |
|                     | OCDD                        | 0.0003        | 0.48   | 0.52   | 0.45   | 1.0    | 3.9    |
|                     | PCDFs                       | 2,3,7,8-TeCDF | 0.1    | 4.7    | 3.4    | 4.9    | 11     |
| 1,2,3,7,8-PeCDF     |                             | 0.03          | 1.7    | 0.39   | 1.8    | 6.5    | 3.0    |
| 2,3,4,7,8-PeCDF     |                             | 0.3           | 0.86   | 1.2    | 0.87   | 1.8    | 6.4    |
| 1,2,3,4,7,8-HxCDF   |                             | 0.1           | 0.54   | 0.10   | 0.56   | 2.3    | 1.1    |
| 1,2,3,6,7,8-HxCDF   |                             | 0.1           | 0.99   | 0.16   | 0.99   | 4.2    | 0.82   |
| 1,2,3,7,8,9-HxCDF   |                             | 0.1           | ND     | ND     | ND     | 0.15   | 0.06 * |
| 2,3,4,6,7,8-HxCDF   |                             | 0.1           | 0.77   | 0.22   | 0.71   | 2.6    | 1.0    |
| 1,2,3,4,6,7,8-HpCDF |                             | 0.01          | 0.37   | ND     | 0.31   | 1.2    | 0.72   |
| 1,2,3,4,7,8,9-HpCDF |                             | 0.01          | 0.07 * | ND     | 0.06 * | 0.16   | 0.09 * |
| OCDF                |                             | 0.0003        | ND     | ND     | 0.12 * | 0.10 * | 0.23   |
| ノンオルト<br>Co-PCBs    | 3,3',4,4'-TeCB (#77)        | 0.0001        | 79     | 95     | 70     | 130    | 200    |
|                     | 3,4,4',5'-TeCB(#81)         | 0.0003        | 5.4    | 7.3    | 5.2    | 8.1    | 15     |
|                     | 3,3',4,4',5'-PeCB(#126)     | 0.1           | 51     | 37     | 43     | 170    | 100    |
|                     | 3,3',4,4',5,5'-HxCB(#169)   | 0.03          | 14     | 8.3    | 13     | 54     | 28     |
| モノオルト<br>Co-PCBs    | 2,3,3',4,4'-PeCB(#105)      | 0.00003       | 1,600  | 1,100  | 1,300  | 4,000  | 2,200  |
|                     | 2,3,4,4',5'-PeCB(#114)      | 0.00003       | 140    | 98     | 130    | 370    | 180    |
|                     | 2,3',4,4',5'-PeCB(#118)     | 0.00003       | 4,800  | 4,400  | 4,200  | 13,000 | 7,800  |
|                     | 2',3,4,4',5'-PeCB(#123)     | 0.00003       | 95     | 73     | 84     | 270    | 140    |
|                     | 2,3,3',4,4',5'-HxCB(#156)   | 0.00003       | 420    | 500    | 380    | 1,300  | 1,000  |
|                     | 2,3,3',4,4',5'-HxCB(#157)   | 0.00003       | 120    | 130    | 110    | 380    | 300    |
|                     | 2,3',4,4',5,5'-HxCB(#167)   | 0.00003       | 230    | 350    | 220    | 730    | 660    |
|                     | 2,3,3',4,4',5,5'-HpCB(#189) | 0.00003       | 46     | 63     | 40     | 150    | 170    |
| 毒性当量                | PCDDs+PCDFs                 | —             | 1.3    | 1.0    | 1.3    | 3.8    | 4.1    |
|                     | Co-PCBs                     | —             | 5.8    | 4.2    | 4.9    | 19     | 11     |
|                     | 総計                          | —             | 7.1    | 5.2    | 6.2    | 23     | 16     |

注) TEFは毒性等価係数、NDは検出下限未満、\*が付されている数値は定量下限未満  
検出下限、定量下限、毒性等価係数及び毒性当量の算出方法は本文参照

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(異性体の試験結果の単位：ng/kg、毒性当量の単位：ng-TEQ/kg)

| 分類               | 異性体名                        | TEF     | 魚粉     |        |        |        |        |
|------------------|-----------------------------|---------|--------|--------|--------|--------|--------|
|                  |                             |         | 1      | 2      | 3      | 4      | 5      |
| PCDDs            | 2,3,7,8-TeCDD               | 1       | ND     | ND     | 0.03 * | ND     | 0.07   |
|                  | 1,2,3,7,8-PeCDD             | 1       | 0.05   | 0.04 * | 0.08   | 0.05   | 0.17   |
|                  | 1,2,3,4,7,8-HxCDD           | 0.1     | ND     | ND     | ND     | ND     | 0.07 * |
|                  | 1,2,3,6,7,8-HxCDD           | 0.1     | ND     | ND     | 0.06 * | ND     | 0.17   |
|                  | 1,2,3,7,8,9-HxCDD           | 0.1     | ND     | ND     | 0.06 * | ND     | 0.07 * |
|                  | 1,2,3,4,6,7,8-HpCDD         | 0.01    | ND     | 0.04 * | 0.13   | 0.07 * | 0.24   |
|                  | OCDD                        | 0.0003  | 0.07 * | 0.26   | 1.2    | 0.52   | 0.98   |
| PCDFs            | 2,3,7,8-TeCDF               | 0.1     | ND     | 0.14   | 0.30   | 0.48   | 1.2    |
|                  | 1,2,3,7,8-PeCDF             | 0.03    | ND     | 0.02 * | 0.11   | 0.12   | 0.56   |
|                  | 2,3,4,7,8-PeCDF             | 0.3     | ND     | 0.06   | 0.17   | 0.39   | 0.80   |
|                  | 1,2,3,4,7,8-HxCDF           | 0.1     | ND     | ND     | ND     | 0.05 * | 0.28   |
|                  | 1,2,3,6,7,8-HxCDF           | 0.1     | ND     | ND     | ND     | 0.04 * | 0.32   |
|                  | 1,2,3,7,8,9-HxCDF           | 0.1     | ND     | ND     | ND     | ND     | ND     |
|                  | 2,3,4,6,7,8-HxCDF           | 0.1     | ND     | ND     | 0.04 * | 0.03 * | 0.20   |
|                  | 1,2,3,4,6,7,8-HpCDF         | 0.01    | ND     | ND     | 0.03 * | ND     | 0.12   |
|                  | 1,2,3,4,7,8,9-HpCDF         | 0.01    | ND     | ND     | ND     | ND     | ND     |
| OCDF             | 0.0003                      | ND      | ND     | ND     | 0.10 * | ND     |        |
| ノンオルト<br>Co-PCBs | 3,3',4,4'-TeCB (#77)        | 0.0001  | 2.9    | 5.0    | 8.2    | 15     | 17     |
|                  | 3,4,4',5'-TeCB(#81)         | 0.0003  | ND     | 0.5    | 0.6    | 1.2    | 1.8    |
|                  | 3,3',4,4',5'-PeCB(#126)     | 0.1     | 1.0    | 1.8    | 4.7    | 8.4    | 12     |
|                  | 3,3',4,4',5,5'-HxCB(#169)   | 0.03    | ND     | 0.4 *  | 1.8    | 3.0    | 3.3    |
| モノオルト<br>Co-PCBs | 2,3,3',4,4'-PeCB(#105)      | 0.00003 | 19     | 42     | 110    | 190    | 320    |
|                  | 2,3,4,4',5'-PeCB(#114)      | 0.00003 | 0.9 *  | 4.0    | 9.3    | 17     | 26     |
|                  | 2,3',4,4',5'-PeCB(#118)     | 0.00003 | 49     | 140    | 380    | 630    | 900    |
|                  | 2',3,4,4',5'-PeCB(#123)     | 0.00003 | 1.0    | 2.8    | 8.1    | 14     | 18     |
|                  | 2,3,3',4,4',5'-HxCB(#156)   | 0.00003 | 8.0    | 15     | 48     | 88     | 110    |
|                  | 2,3,3',4,4',5'-HxCB(#157)   | 0.00003 | 1.8    | 4.3    | 12     | 23     | 32     |
|                  | 2,3',4,4',5,5'-HxCB(#167)   | 0.00003 | 5.4    | 8.8    | 31     | 54     | 60     |
|                  | 2,3,3',4,4',5,5'-HpCB(#189) | 0.00003 | 1.0    | 1.9    | 6.0    | 13     | 12     |
| 毒性当量             | PCDDs+PCDFs                 | —       | 0.052  | 0.031  | 0.17   | 0.22   | 0.72   |
|                  | Co-PCBs                     | —       | 0.10   | 0.18   | 0.54   | 0.97   | 1.4    |
|                  | 総計                          | —       | 0.16   | 0.21   | 0.71   | 1.2    | 2.1    |

注) TEFは毒性等価係数、NDは検出下限未満、\*が付されている数値は定量下限未満

検出下限、定量下限、毒性等価係数及び毒性当量の算出方法は本文参照

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(異性体の試験結果の単位：ng/kg、毒性当量の単位：ng-TEQ/kg)

| 分類               | 異性体名                        | TEF     | 魚粉     |       |        |        |        |
|------------------|-----------------------------|---------|--------|-------|--------|--------|--------|
|                  |                             |         | 6      | 7     | 8      | 9      | 10     |
| PCDDs            | 2,3,7,8-TeCDD               | 1       | 0.08   | 0.18  | ND     | 0.08   | ND     |
|                  | 1,2,3,7,8-PeCDD             | 1       | ND     | ND    | ND     | ND     | ND     |
|                  | 1,2,3,4,7,8-HxCDD           | 0.1     | ND     | ND    | ND     | ND     | ND     |
|                  | 1,2,3,6,7,8-HxCDD           | 0.1     | 0.15   | 0.23  | ND     | 0.12   | 0.07 * |
|                  | 1,2,3,7,8,9-HxCDD           | 0.1     | 0.06 * | 0.24  | ND     | ND     | 0.03 * |
|                  | 1,2,3,4,6,7,8-HpCDD         | 0.01    | 0.04 * | 0.14  | ND     | 0.18   | 0.20   |
|                  | OCDD                        | 0.0003  | 0.27   | 0.49  | 0.19 * | 1.2    | 1.1    |
| PCDFs            | 2,3,7,8-TeCDF               | 0.1     | 1.1    | 1.6   | 0.30   | 0.65   | 0.57   |
|                  | 1,2,3,7,8-PeCDF             | 0.03    | 0.49   | 0.80  | 0.07   | 0.12   | 0.29   |
|                  | 2,3,4,7,8-PeCDF             | 0.3     | 0.31   | 0.33  | 0.07   | 0.48   | 0.37   |
|                  | 1,2,3,4,7,8-HxCDF           | 0.1     | 0.19   | 0.32  | ND     | ND     | ND     |
|                  | 1,2,3,6,7,8-HxCDF           | 0.1     | 0.33   | 0.51  | ND     | ND     | 0.10 * |
|                  | 1,2,3,7,8,9-HxCDF           | 0.1     | ND     | ND    | ND     | ND     | ND     |
|                  | 2,3,4,6,7,8-HxCDF           | 0.1     | 0.22   | 0.41  | ND     | 0.06 * | 0.10 * |
|                  | 1,2,3,4,6,7,8-HpCDF         | 0.01    | 0.10 * | 0.13  | ND     | 0.07 * | ND     |
|                  | 1,2,3,4,7,8,9-HpCDF         | 0.01    | ND     | ND    | ND     | ND     | ND     |
| OCDF             | 0.0003                      | ND      | ND     | ND    | ND     | ND     |        |
| ノンオルト<br>Co-PCBs | 3,3',4,4'-TeCB(#77)         | 0.0001  | 16     | 19    | 8.3    | 25     | 18     |
|                  | 3,4,4',5-TeCB(#81)          | 0.0003  | 0.9    | 1.0   | ND     | 1.9    | 1.3    |
|                  | 3,3',4,4',5-PeCB(#126)      | 0.1     | 12     | 18    | 2.4    | 13     | 8.8    |
|                  | 3,3',4,4',5,5'-HxCB(#169)   | 0.03    | 3.0    | 4.8   | 0.3 *  | 3.6    | 2.7    |
| モノオルト<br>Co-PCBs | 2,3,3',4,4'-PeCB(#105)      | 0.00003 | 310    | 420   | 73     | 280    | 240    |
|                  | 2,3,4,4',5-PeCB(#114)       | 0.00003 | 30     | 41    | 4.2    | 29     | 23     |
|                  | 2,3',4,4',5-PeCB(#118)      | 0.00003 | 930    | 1,200 | 170    | 980    | 820    |
|                  | 2',3,4,4',5-PeCB(#123)      | 0.00003 | 21     | 27    | 3.8    | 22     | 19     |
|                  | 2,3,3',4,4',5-HxCB(#156)    | 0.00003 | 92     | 140   | 18     | 150    | 110    |
|                  | 2,3,3',4,4',5'-HxCB(#157)   | 0.00003 | 34     | 60    | 7.6    | 39     | 32     |
|                  | 2,3',4,4',5,5'-HxCB(#167)   | 0.00003 | 53     | 77    | 12     | 93     | 59     |
|                  | 2,3,3',4,4',5,5'-HpCB(#189) | 0.00003 | 8.6    | 14    | 1.3    | 25     | 14     |
| 毒性当量             | PCDDs+PCDFs                 | —       | 0.39   | 0.63  | 0.053  | 0.30   | 0.18   |
|                  | Co-PCBs                     | —       | 1.4    | 2.0   | 0.25   | 1.4    | 1.0    |
|                  | 総計                          | —       | 1.7    | 2.6   | 0.30   | 1.7    | 1.2    |

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| 分類               | 異性体名                        | TEF     | 動物性油脂   |         |        |         |        |
|------------------|-----------------------------|---------|---------|---------|--------|---------|--------|
|                  |                             |         | 1       | 2       | 3      | 4       | 5      |
| PCDDs            | 2,3,7,8-TeCDD               | 1       | ND      | ND      | 0.05 * | ND      | ND     |
|                  | 1,2,3,7,8-PeCDD             | 1       | ND      | ND      | 0.14   | ND      | 0.05 * |
|                  | 1,2,3,4,7,8-HxCDD           | 0.1     | ND      | ND      | 0.14   | ND      | ND     |
|                  | 1,2,3,6,7,8-HxCDD           | 0.1     | 0.04 *  | ND      | 0.57   | 0.09 *  | 0.12   |
|                  | 1,2,3,7,8,9-HxCDD           | 0.1     | ND      | ND      | 0.25   | ND      | 0.04 * |
|                  | 1,2,3,4,6,7,8-HpCDD         | 0.01    | 0.33    | 0.25    | 3.2    | 0.72    | 1.0    |
|                  | OCDD                        | 0.0003  | 13      | 6.9     | 16     | 21      | 6.6    |
| PCDFs            | 2,3,7,8-TeCDF               | 0.1     | 0.04 *  | 0.03 *  | ND     | 0.02 *  | ND     |
|                  | 1,2,3,7,8-PeCDF             | 0.03    | ND      | ND      | ND     | ND      | ND     |
|                  | 2,3,4,7,8-PeCDF             | 0.3     | ND      | ND      | 0.15   | 0.04 *  | 0.10   |
|                  | 1,2,3,4,7,8-HxCDF           | 0.1     | ND      | ND      | 0.23   | 0.04 *  | 0.15   |
|                  | 1,2,3,6,7,8-HxCDF           | 0.1     | ND      | ND      | 0.17   | 0.04 *  | 0.08 * |
|                  | 1,2,3,7,8,9-HxCDF           | 0.1     | ND      | ND      | ND     | ND      | ND     |
|                  | 2,3,4,6,7,8-HxCDF           | 0.1     | ND      | ND      | 0.12   | ND      | 0.06 * |
|                  | 1,2,3,4,6,7,8-HpCDF         | 0.01    | 0.04 *  | ND      | 0.41   | 0.10 *  | 0.22   |
|                  | 1,2,3,4,7,8,9-HpCDF         | 0.01    | ND      | ND      | 0.05 * | ND      | 0.04 * |
| OCDF             | 0.0003                      | ND      | ND      | 0.12 *  | ND     | 0.13 *  |        |
| ノンオルト<br>Co-PCBs | 3,3',4,4'-TeCB (#77)        | 0.0001  | 0.6     | 0.3 *   | 0.3 *  | 0.5     | 0.2 *  |
|                  | 3,4,4',5-TeCB(#81)          | 0.0003  | ND      | ND      | ND     | ND      | ND     |
|                  | 3,3',4,4',5-PeCB(#126)      | 0.1     | ND      | ND      | 0.9    | ND      | 0.5 *  |
|                  | 3,3',4,4',5,5'-HxCB(#169)   | 0.03    | ND      | ND      | 0.2 *  | ND      | 0.2 *  |
| モノオルト<br>Co-PCBs | 2,3,3',4,4'-PeCB(#105)      | 0.00003 | 4.3     | 2.1     | 16     | 4.5     | 10     |
|                  | 2,3,4,4',5-PeCB(#114)       | 0.00003 | 0.4 *   | ND      | 2.7    | 0.5 *   | 1.6    |
|                  | 2,3',4,4',5-PeCB(#118)      | 0.00003 | 14      | 5.8     | 81     | 16      | 47     |
|                  | 2',3,4,4',5-PeCB(#123)      | 0.00003 | ND      | ND      | 1.4    | 0.3 *   | 0.7 *  |
|                  | 2,3,3',4,4',5-HxCB(#156)    | 0.00003 | 1.9     | 0.8 *   | 12     | 2.1     | 6.7    |
|                  | 2,3,3',4,4',5'-HxCB(#157)   | 0.00003 | 0.5 *   | ND      | 2.7    | 0.5 *   | 1.8    |
|                  | 2,3',4,4',5,5'-HxCB(#167)   | 0.00003 | 1.0     | 0.4 *   | 4.6    | 1.0 *   | 2.2    |
|                  | 2,3,3',4,4',5,5'-HpCB(#189) | 0.00003 | ND      | ND      | 1.3    | ND      | 0.7 *  |
| 毒性当量             | PCDDs+PCDFs                 | —       | 0.0071  | 0.0046  | 0.37   | 0.013   | 0.073  |
|                  | Co-PCBs                     | —       | 0.00071 | 0.00024 | 0.094  | 0.00072 | 0.0021 |
|                  | 総計                          | —       | 0.0078  | 0.0048  | 0.47   | 0.014   | 0.075  |

注) TEFは毒性等価係数、NDは検出下限未満、\*が付されている数値は定量下限未満

検出下限、定量下限、毒性等価係数及び毒性当量の算出方法は本文参照

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| 分類               | 異性体名                         | TEF     | 動物性油脂  |         |        |        |        |
|------------------|------------------------------|---------|--------|---------|--------|--------|--------|
|                  |                              |         | 6      | 7       | 8      | 9      | 10     |
| PCDDs            | 2,3,7,8-TeCDD                | 1       | ND     | ND      | ND     | ND     | ND     |
|                  | 1,2,3,7,8-PeCDD              | 1       | ND     | ND      | ND     | ND     | ND     |
|                  | 1,2,3,4,7,8-HxCDD            | 0.1     | ND     | ND      | ND     | 0.04 * | ND     |
|                  | 1,2,3,6,7,8-HxCDD            | 0.1     | 0.11   | 0.09 *  | 0.15   | 0.06 * | 0.05 * |
|                  | 1,2,3,7,8,9-HxCDD            | 0.1     | ND     | 0.05 *  | 0.07 * | 0.05 * | ND     |
|                  | 1,2,3,4,6,7,8-HpCDD          | 0.01    | 0.64   | 0.95    | 1.3    | 0.78   | 0.48   |
|                  | OCDD                         | 0.0003  | 19     | 12      | 12     | 4.3    | 22     |
| PCDFs            | 2,3,7,8-TeCDF                | 0.1     | 0.03 * | ND      | 0.56   | ND     | 0.03 * |
|                  | 1,2,3,7,8-PeCDF              | 0.03    | ND     | ND      | 0.16   | ND     | ND     |
|                  | 2,3,4,7,8-PeCDF              | 0.3     | 0.03 * | 0.05 *  | 0.17   | 0.07   | 0.03 * |
|                  | 1,2,3,4,7,8-HxCDF            | 0.1     | 0.04 * | 0.04 *  | 0.09 * | 0.08 * | ND     |
|                  | 1,2,3,6,7,8-HxCDF            | 0.1     | 0.03 * | 0.03 *  | 0.07 * | ND     | ND     |
|                  | 1,2,3,7,8,9-HxCDF            | 0.1     | ND     | ND      | ND     | ND     | ND     |
|                  | 2,3,4,6,7,8-HxCDF            | 0.1     | 0.04 * | ND      | 0.06 * | 0.05 * | 0.04 * |
|                  | 1,2,3,4,6,7,8-HpCDF          | 0.01    | 0.10   | 0.08 *  | 0.18   | 0.13   | 0.05 * |
|                  | 1,2,3,4,7,8,9-HpCDF          | 0.01    | ND     | ND      | ND     | ND     | ND     |
| OCDF             | 0.0003                       | 0.06 *  | ND     | ND      | ND     | ND     |        |
| ノンオルト<br>Co-PCBs | 3,3',4,4'-TeCB (#77)         | 0.0001  | 0.6    | 0.3 *   | 2.8    | 0.4 *  | 0.6    |
|                  | 3,4,4',5'-TeCB(#81)          | 0.0003  | ND     | ND      | 0.2 *  | ND     | ND     |
|                  | 3,3',4,4',5'-PeCB(#126)      | 0.1     | ND     | ND      | 1.3    | 0.5 *  | 0.3 *  |
|                  | 3,3',4,4',5,5'-HxCB(#169)    | 0.03    | ND     | ND      | 0.5    | 0.2 *  | ND     |
| モノオルト<br>Co-PCBs | 2,3,3',4,4'-PeCB(#105)       | 0.00003 | 6.0    | 2.3     | 59     | 10     | 6.6    |
|                  | 2,3,4,4',5'-PeCB(#114)       | 0.00003 | 0.6 *  | ND      | 5.8    | 1.6    | 0.7 *  |
|                  | 2,3',4,4',5'-PeCB(#118)      | 0.00003 | 24     | 7.5     | 190    | 42     | 27     |
|                  | 2',3,4,4',5'-PeCB(#123)      | 0.00003 | 0.5 *  | ND      | 3.8    | 0.7 *  | 0.4 *  |
|                  | 2,3,3',4,4',5'-HxCB(#156)    | 0.00003 | 3.1    | 1.3     | 25     | 6.6    | 3.2    |
|                  | 2,3,3',4,4',5',5'-HxCB(#157) | 0.00003 | 0.8 *  | 0.3 *   | 6.2    | 1.8    | 0.9 *  |
|                  | 2,3',4,4',5,5'-HxCB(#167)    | 0.00003 | 1.6    | 0.5 *   | 11     | 2.0    | 1.5    |
|                  | 2,3,3',4,4',5,5'-HpCB(#189)  | 0.00003 | 0.4 *  | ND      | 2.3    | 0.7 *  | ND     |
| 毒性当量             | PCDDs+PCDFs                  | —       | 0.024  | 0.013   | 0.15   | 0.032  | 0.011  |
|                  | Co-PCBs                      | —       | 0.0011 | 0.00033 | 0.16   | 0.0019 | 0.0012 |
|                  | 総計                           | —       | 0.025  | 0.014   | 0.30   | 0.034  | 0.013  |

注) TEFは毒性等価係数、NDは検出下限未満、\*が付されている数値は定量下限未満

検出下限、定量下限、毒性等価係数及び毒性当量の算出方法は本文参照