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## **Appendix J**

# **NPRI Substances**

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## Appendix 1 - Alphabetical Listing of NPRI Substances for 2005

The substances are listed in six parts. The reporting criteria for the substances listed in each Part differ and are explained in Step 1. Explanations of the footnotes and substance qualifiers are also provided in Step 1.

### Part 1A Substances

| Name                                 | CAS No. <sup>1</sup> |                                            |            |
|--------------------------------------|----------------------|--------------------------------------------|------------|
| Acetaldehyde                         | 75-07-0              | Carbonyl sulphide                          | 463-58-1   |
| Acetonitrile                         | 75-05-8              | Catechol                                   | 120-80-9   |
| Acetophenone                         | 98-86-2              | CFC-11                                     | 75-69-4    |
| Acrolein                             | 107-02-8             | CFC-12                                     | 75-71-8    |
| Acrylamide                           | 79-06-1              | CFC-13                                     | 75-72-9    |
| Acrylic acid <sup>2</sup>            | 79-10-7              | CFC-114                                    | 76-14-2    |
| Acrylonitrile                        | 107-13-1             | CFC-115                                    | 76-15-3    |
| Alkanes, C <sub>6-18</sub> , chloro  | 68920-70-7           | Chlorendic acid                            | 115-28-6   |
| Alkanes, C <sub>10-13</sub> , chloro | 85535-84-8           | Chlorine                                   | 7782-50-5  |
| Allyl alcohol                        | 107-18-6             | Chlorine dioxide                           | 10049-04-4 |
| Allyl chloride                       | 107-05-1             | Chloroacetic acid <sup>2</sup>             | 79-11-8    |
| Aluminum <sup>3</sup>                | 7429-90-5            | Chlorobenzene                              | 108-90-7   |
| Aluminum oxide <sup>4</sup>          | 1344-28-1            | Chloroethane                               | 75-00-3    |
| Ammonia (total) <sup>5</sup>         | *                    | Chloroform                                 | 67-66-3    |
| Aniline <sup>2</sup>                 | 62-53-3              | Chloromethane                              | 74-87-3    |
| Anthracene                           | 120-12-7             | 3-Chloro-2-methyl-1-propene                | 563-47-3   |
| Antimony <sup>6</sup>                | *                    | 3-Chloropropionitrile                      | 542-76-7   |
| Asbestos <sup>7</sup>                | 1332-21-4            | Chromium <sup>8</sup>                      | *          |
| Benzene                              | 71-43-2              | Cobalt <sup>6</sup>                        | *          |
| Benzoyl chloride                     | 98-88-4              | Copper <sup>6</sup>                        | *          |
| Benzoyl peroxide                     | 94-36-0              | Cresol <sup>2,9</sup>                      | 1319-77-3  |
| Benzyl chloride                      | 100-44-7             | Crotonaldehyde                             | 4170-30-3  |
| Biphenyl                             | 92-52-4              | Cumene                                     | 98-82-8    |
| Bis(2-ethylhexyl) adipate            | 103-23-1             | Cumene hydroperoxide                       | 80-15-9    |
| Bis(2-ethylhexyl) phthalate          | 117-81-7             | Cyanides <sup>10</sup>                     | *          |
| Boron trifluoride                    | 7637-07-2            | Cyclohexane                                | 110-82-7   |
| Bromine                              | 7726-95-6            | Cyclohexanol                               | 108-93-0   |
| 1-Bromo-2-chloroethane               | 107-04-0             | Decabromodiphenyl oxide                    | 1163-19-5  |
| Bromomethane                         | 74-83-9              | 2,4-Diaminotoluene <sup>2</sup>            | 95-80-7    |
| 1,3-Butadiene                        | 106-99-0             | 2,6-Di- <i>t</i> -butyl-4-methylphenol     | 128-37-0   |
| 2-Butoxyethanol                      | 111-76-2             | Dibutyl phthalate                          | 84-74-2    |
| Butyl acrylate                       | 141-32-2             | <i>o</i> -Dichlorobenzene                  | 95-50-1    |
| <i>i</i> -Butyl alcohol              | 78-83-1              | <i>p</i> -Dichlorobenzene                  | 106-46-7   |
| <i>n</i> -Butyl alcohol              | 71-36-3              | 3,3'-Dichlorobenzidine dihydrochloride     | 612-83-9   |
| <i>sec</i> -Butyl alcohol            | 78-92-2              | 1,2-Dichloroethane                         | 107-06-2   |
| <i>tert</i> -Butyl alcohol           | 75-65-0              | Dichloromethane                            | 75-09-2    |
| Butyl benzyl phthalate               | 85-68-7              | 2,4-Dichlorophenol <sup>2</sup>            | 120-83-2   |
| 1,2-Butylene oxide                   | 106-88-7             | 1,2-Dichloropropane                        | 78-87-5    |
| Butyraldehyde                        | 123-72-8             | Dicyclopentadiene                          | 77-73-6    |
| C.I. Acid Green 3                    | 4680-78-8            | Diethanolamine <sup>2</sup>                | 111-42-2   |
| C.I. Basic Green 4                   | 569-64-2             | Diethyl phthalate                          | 84-66-2    |
| C.I. Basic Red 1                     | 989-38-8             | Diethyl sulphate                           | 64-67-5    |
| C.I. Direct Blue 218                 | 28407-37-6           | Dimethylamine                              | 124-40-3   |
| C.I. Disperse Yellow 3               | 2832-40-8            | <i>N,N</i> -Dimethylaniline <sup>2</sup>   | 121-69-7   |
| C.I. Food Red 15                     | 81-88-9              | <i>N,N</i> -Dimethylformamide              | 68-12-2    |
| C.I. Solvent Orange 7                | 3118-97-6            | Dimethyl phenol                            | 1300-71-6  |
| C.I. Solvent Yellow 14               | 842-07-9             | Dimethyl phthalate                         | 131-11-3   |
| Calcium cyanamide                    | 156-62-7             | Dimethyl sulphate                          | 77-78-1    |
| Calcium fluoride                     | 7789-75-5            | 4,6-Dinitro- <i>o</i> -cresol <sup>2</sup> | 534-52-1   |
| Carbon disulphide                    | 75-15-0              | 2,4-Dinitrotoluene                         | 121-14-2   |
| Carbon tetrachloride                 | 56-23-5              | 2,6-Dinitrotoluene                         | 606-20-2   |
|                                      |                      | Dinitrotoluene <sup>11</sup>               | 25321-14-6 |

|                                            |            |                                               |            |
|--------------------------------------------|------------|-----------------------------------------------|------------|
| Di- <i>n</i> -octyl phthalate              | 117-84-0   | Molybdenum trioxide                           | 1313-27-5  |
| 1,4-Dioxane                                | 123-91-1   | Naphthalene                                   | 91-20-3    |
| Diphenylamine                              | 122-39-4   | Nickel <sup>6</sup>                           | *          |
| Epichlorohydrin                            | 106-89-8   | Nitrate ion <sup>15</sup>                     | *          |
| 2-Ethoxyethanol                            | 110-80-5   | Nitric acid                                   | 7697-37-2  |
| 2-Ethoxyethyl acetate                      | 111-15-9   | Nitrilotriacetic acid <sup>2</sup>            | 139-13-9   |
| Ethyl acrylate                             | 140-88-5   | <i>p</i> -Nitroaniline                        | 100-01-6   |
| Ethylbenzene                               | 100-41-4   | Nitrobenzene                                  | 98-95-3    |
| Ethyl chloroformate                        | 541-41-3   | Nitroglycerin                                 | 55-63-0    |
| Ethylene                                   | 74-85-1    | <i>p</i> -Nitrophenol <sup>2</sup>            | 100-02-7   |
| Ethylene glycol                            | 107-21-1   | 2-Nitropropane                                | 79-46-9    |
| Ethylene oxide                             | 75-21-8    | N-Nitrosodiphenylamine                        | 86-30-6    |
| Ethylene thiourea                          | 96-45-7    | Nonylphenol and its ethoxylates <sup>16</sup> | *          |
| Fluorine                                   | 7782-41-4  | Octylphenol and its ethoxylates <sup>17</sup> | *          |
| Formaldehyde                               | 50-00-0    | Paraldehyde                                   | 123-63-7   |
| Formic acid                                | 64-18-6    | Pentachloroethane                             | 76-01-7    |
| Halon 1211                                 | 353-59-3   | Peracetic acid <sup>2</sup>                   | 79-21-0    |
| Halon 1301                                 | 75-63-8    | Phenol <sup>2</sup>                           | 108-95-2   |
| HCFC-22                                    | 75-45-6    | <i>p</i> -Phenylenediamine <sup>2</sup>       | 106-50-3   |
| HCFC-122 and all isomers <sup>12</sup>     | 41834-16-6 | <i>o</i> -Phenylphenol <sup>2</sup>           | 90-43-7    |
| HCFC-123 and all isomers <sup>13</sup>     | 34077-87-7 | Phosgene                                      | 75-44-5    |
| HCFC 124 and all isomers <sup>14</sup>     | 63938-10-3 | Phosphorus <sup>18</sup>                      | 7723-14-0  |
| HCFC-141b                                  | 1717-00-6  | Phosphorus (total) <sup>19</sup>              | *          |
| HCFC-142b                                  | 75-68-3    | Phthalic anhydride                            | 85-44-9    |
| Hexachlorocyclopentadiene                  | 77-47-4    | Polymeric diphenylmethane diisocyanate        | 9016-87-9  |
| Hexachloroethane                           | 67-72-1    | Potassium bromate                             | 7758-01-2  |
| Hexachlorophene                            | 70-30-4    | Propargyl alcohol                             | 107-19-7   |
| <i>n</i> -Hexane                           | 110-54-3   | Propionaldehyde                               | 123-38-6   |
| Hydrazine <sup>2</sup>                     | 302-01-2   | Propylene                                     | 115-07-1   |
| Hydrochloric acid                          | 7647-01-0  | Propylene oxide                               | 75-56-9    |
| Hydrogen cyanide                           | 74-90-8    | Pyridine <sup>2</sup>                         | 110-86-1   |
| Hydrogen fluoride                          | 7664-39-3  | Quinoline <sup>2</sup>                        | 91-22-5    |
| Hydrogen sulphide                          | 7783-06-4  | <i>p</i> -Quinone                             | 106-51-4   |
| Hydroquinone <sup>2</sup>                  | 123-31-9   | Safrole                                       | 94-59-7    |
| Iron pentacarbonyl                         | 13463-40-6 | Selenium <sup>6</sup>                         | *          |
| Isobutyraldehyde                           | 78-84-2    | Silver <sup>6</sup>                           | *          |
| Isophorone diisocyanate                    | 4098-71-9  | Sodium fluoride                               | 7681-49-4  |
| Isoprene                                   | 78-79-5    | Sodium nitrite                                | 7632-00-0  |
| Isopropyl alcohol                          | 67-63-0    | Styrene                                       | 100-42-5   |
| <i>p,p'</i> -Isopropylidenediphenol        | 80-05-7    | Styrene oxide                                 | 96-09-3    |
| Isosafrole                                 | 120-58-1   | Sulphur hexafluoride                          | 2551-62-4  |
| Lithium carbonate                          | 554-13-2   | Sulphuric acid                                | 7664-93-9  |
| Maleic anhydride                           | 108-31-6   | 1,1,1,2-Tetrachloroethane                     | 630-20-6   |
| Manganese <sup>6</sup>                     | *          | 1,1,2,2-Tetrachloroethane                     | 79-34-5    |
| 2-Mercaptobenzothiazole                    | 149-30-4   | Tetrachloroethylene                           | 127-18-4   |
| Methanol                                   | 67-56-1    | Tetracycline hydrochloride                    | 64-75-5    |
| 2-Methoxyethanol                           | 109-86-4   | Thiourea                                      | 62-56-6    |
| 2-Methoxyethyl acetate                     | 110-49-6   | Thorium dioxide                               | 1314-20-1  |
| Methyl acrylate                            | 96-33-3    | Titanium tetrachloride                        | 7550-45-0  |
| Methyl <i>tert</i> -butyl ether            | 1634-04-4  | Toluene                                       | 108-88-3   |
| <i>p,p'</i> -Methylenebis(2-chloroaniline) | 101-14-4   | Toluene-2,4-diisocyanate                      | 584-84-9   |
| 1,1-Methylenebis(4-isocyanatocyclohexane)  | 5124-30-1  | Toluene-2,6-diisocyanate                      | 91-08-7    |
| Methylenebis(phenylisocyanate)             | 101-68-8   | Toluenediisocyanate <sup>11</sup>             | 26471-62-5 |
| <i>p,p'</i> -Methylenedianiline            | 101-77-9   | 1,2,4-Trichlorobenzene                        | 120-82-1   |
| Methyl ethyl ketone                        | 78-93-3    | 1,1,2-Trichloroethane                         | 79-00-5    |
| Methyl iodide                              | 74-88-4    | Trichloroethylene                             | 79-01-6    |
| Methyl isobutyl ketone                     | 108-10-1   | Triethylamine                                 | 121-44-8   |
| Methyl methacrylate                        | 80-62-6    | 1,2,4-Trimethylbenzene                        | 95-63-6    |
| N-Methylolacrylamide                       | 924-42-5   | 2,2,4-Trimethylhexamethylene diisocyanate     | 16938-22-0 |
| 2-Methylpyridine                           | 109-06-8   | 2,4,4-Trimethylhexamethylene diisocyanate     | 15646-96-5 |
| N-Methyl-2-pyrrolidone                     | 872-50-4   | Vanadium <sup>20</sup>                        | 7440-62-2  |
| Michler's ketone <sup>2</sup>              | 90-94-8    | Vinyl acetate                                 | 108-05-4   |

|                      |           |                   |   |
|----------------------|-----------|-------------------|---|
| Vinyl chloride       | 75-01-4   | Zinc <sup>6</sup> | * |
| Vinylidene chloride  | 75-35-4   |                   |   |
| Xylene <sup>21</sup> | 1330-20-7 |                   |   |

**[See Step 1 of the Guide for Reporting to the NPRI - 2004 for an explanation of these qualifiers.]**

- \* No single CAS number applies to this NPRI listing.
- CAS Registry Number denotes the Chemical Abstracts Service Registry Number, as appropriate.
  - "and its salts" - The CAS number corresponds to the weak acid or base. However, the substance includes the salts of these weak acids and bases. When calculating the weight of these substances and their salts, use the molecular weight of the acid or base, not the total weight of the salt.
  - "fume or dust"
  - "fibrous forms"
  - "Ammonia (total)" means the total of both of ammonia (NH<sub>3</sub> - CAS No. 7664-41-7) and the ammonium ion (NH<sub>4</sub><sup>+</sup>) in solution.
  - "and its compounds"
  - "friable form"
  - "and its compounds" except hexavalent chromium compounds
  - "all isomers" including, but not limited to, the individual isomers of cresol: *m*-cresol (CAS No. 108-39-4), *o*-cresol (CAS No. 95-48-7) and *p*-cresol (CAS No. 106-44-5)
  - "ionic"
  - "mixed isomers"
  - "all isomers" including, but not limited to, HCFC-122 (CAS No. 354-21-2).
  - "all isomers" including, but not limited to, HCFC-123 (CAS No. 306-83-2) and HCFC 123a (CAS No. 90454-18-5).
  - "all isomers" including, but not limited to, HCFC 124 (CAS No. 2837-89-0), and HCFC 124a (CAS No. 354-25-6).
  - "in solution at a pH of 6.0 or greater"
  - Includes nonylphenol, its ethoxylates and derivatives with CAS No.'s: 104-40-5; 25154-52-3; 84852-15-3; 1323-65-5; 26523-78-4; 28987-17-9; 68081-86-7; 68515-89-9; 68515-93-5; 68081-86-1; 104-35-8; 20427-84-3; 26027-38-3; 27177-05-5; 27177-08-8; 28679-13-2; 27986-36-3; 37251-69-7; 7311-27-5; 9016-45-9; 27176-93-8; 37340-60-6; 51811-79-1; 51938-25-1; 68412-53-3; 9051-57-4; 37205-87-1; 68412-54-4; 127087-87-01.
  - Includes octylphenol and its ethoxylates with CAS No.'s: 140-66-9; 1806-26-4; 27193-28-8; 68987-90-6; 9002-93-1; 9036-19-5.
  - "yellow or white"
  - Does not include phosphorus (yellow or white) with CAS No. 7723-14-0.
  - "(except when in an alloy) and its compounds"
  - "all isomers" including, but not limited to, the individual isomers of xylene: *m*-xylene (CAS No. 108-38-3), *o*-xylene (CAS No. 95-47-6) and *p*-xylene (CAS No. 106-42-3).

## Part 1B Substances

| Name                 | CAS No. <sup>1</sup> | Hexavalent chromium compounds | *       |
|----------------------|----------------------|-------------------------------|---------|
| Mercury <sup>6</sup> | *                    | Lead <sup>22, 23</sup>        | *       |
| Cadmium <sup>6</sup> | *                    | Tetraethyl lead               | 78-00-2 |
| Arsenic <sup>6</sup> | *                    |                               |         |

22 "and its compounds" except tetraethyl lead

23 Does not include lead (and its compounds) contained in stainless steel, brass or bronze alloys

## Part 2 Substances

| Name                 | CAS No. <sup>1</sup> | Dibenzo(a,h)anthracene   | 53-70-3  |
|----------------------|----------------------|--------------------------|----------|
| Benzo(a)anthracene   | 56-55-3              | Dibenzo(a,i)pyrene       | 189-55-9 |
| Benzo(a)phenanthrene | 218-01-9             | 7H-Dibenzo(c,g)carbazole | 194-59-2 |
| Benzo(a)pyrene       | 50-32-8              | Fluoranthene             | 206-44-0 |
| Benzo(b)fluoranthene | 205-99-2             | Indeno(1,2,3-c,d)pyrene  | 193-39-5 |
| Benzo(e)pyrene       | 192-97-2             | Perylene                 | 198-55-0 |
| Benzo(g,h,i)perylene | 191-24-2             | Phenanthrene             | 85-01-8  |
| Benzo(j)fluoranthene | 205-82-3             | Pyrene                   | 129-00-0 |
| Benzo(k)fluoranthene | 207-08-9             |                          |          |
| Dibenz(a,j)acridine  | 224-42-0             |                          |          |

## Part 3 Substances

| Name              | CAS No. <sup>1</sup> | Dioxins and Furans <sup>24</sup> | * |
|-------------------|----------------------|----------------------------------|---|
| Hexachlorobenzene | 118-74-1             |                                  |   |

### [See Steps 1 and 2 for an explanation of this footnote.]

<sup>24</sup> This class of substances is restricted to the following congeners:

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (1746-01-6);  
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin (40321-76-4);  
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin (39227-28-6);  
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin (19408-74-3);  
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin (57653-85-7);  
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin (35822-46-9);  
Octachlorodibenzo-*p*-dioxin (3268-87-9);  
2,3,7,8-Tetrachlorodibenzofuran (51207-31-9);  
2,3,4,7,8-Pentachlorodibenzofuran (57117-31-4);  
1,2,3,7,8-Pentachlorodibenzofuran (57117-41-6);  
1,2,3,4,7,8-Hexachlorodibenzofuran (70648-26-9);  
1,2,3,7,8,9-Hexachlorodibenzofuran (72918-21-9);  
1,2,3,6,7,8-Hexachlorodibenzofuran (57117-44-9);  
2,3,4,6,7,8-Hexachlorodibenzofuran (60851-34-5);  
1,2,3,4,6,7,8-Heptachlorodibenzofuran (67562-39-4);  
1,2,3,4,7,8,9-Heptachlorodibenzofuran (55673-89-7); and  
Octachlorodibenzofuran (39001-02-0).

## Part 4 Substances - Criteria Air Contaminants (CACs)

| Name                                               | CAS No. <sup>1</sup> | Sulphur dioxide                          | 7446-09-5 |
|----------------------------------------------------|----------------------|------------------------------------------|-----------|
| Carbon monoxide                                    | 630-08-0             | Total particulate matter <sup>27</sup>   | *         |
| Oxides of nitrogen (expressed as NO <sub>2</sub> ) | 11104-93-1           | Volatile organic compounds <sup>28</sup> | *         |
| PM <sub>2.5</sub> <sup>25</sup>                    | *                    |                                          |           |
| PM <sub>10</sub> <sup>26</sup>                     | *                    |                                          |           |

<sup>25</sup> means any particulate matter with a diameter less than or equal to 2.5 microns.

<sup>26</sup> means any particulate matter with a diameter less than or equal to 10 microns.

<sup>27</sup> means any particulate matter with a diameter less than 100 microns.

<sup>28</sup> Refer to Appendix 5 for definition of VOCs.

## Part 5 Substances - Selected Volatile Organic Compounds (VOCs) With Additional Reporting Requirements

### Individual Substances

| Name                      | CAS No. <sup>1</sup> |
|---------------------------|----------------------|
| Acetylene                 | 74-86-2              |
| Adipic acid               | 124-04-9             |
| Aniline <sup>2</sup>      | 65-53-3              |
| Benzene                   | 71-43-2              |
| 1,3-Butadiene             | 106-99-0             |
| 2-Butoxyethanol           | 111-76-2             |
| <i>n</i> -Butyl acetate   | 123-86-4             |
| Chlorobenzene             | 108-90-7             |
| <i>p</i> -Dichlorobenzene | 106-46-7             |
| 1,2-Dichloroethane        | 107-06-2             |
| Dimethylether             | 115-10-6             |
| Ethyl alcohol             | 64-17-5              |
| Ethyl acetate             | 141-78-6             |
| Ethylene                  | 74-85-1              |
| Formaldehyde              | 50-00-0              |
| <i>n</i> -Hexane          | 110-54-3             |
| Isopropyl alcohol         | 67-63-0              |
| D-Limonene                | 5989-27-5            |
| Methanol                  | 67-56-1              |
| Methyl ethyl ketone       | 78-93-3              |
| 2-Methyl-3-hexanone       | 7379-12-6            |
| Methyl isobutyl ketone    | 108-10-1             |
| Myrcene                   | 123-35-3             |
| Beta-Phellandrene         | 555-10-2             |
| Phenyl isocyanate         | 103-71-9             |
| Alpha-Pinene              | 80-56-8              |
| Beta-Pinene               | 127-91-3             |
| Propane                   | 74-98-6              |
| Propylene                 | 115-07-1             |
| Styrene                   | 100-42-5             |
| 1,2,4-Trimethylbenzene    | 95-63-6              |
| Trimethylfluorosilane     | 420-56-4             |
| Toluene                   | 108-88-3             |
| Vinyl acetate             | 108-05-4             |

### Isomer Groups

| Name                             | CAS No. <sup>1</sup> |
|----------------------------------|----------------------|
| Anthraquinone <sup>29</sup>      | *                    |
| Butane <sup>29</sup>             | *                    |
| Butene <sup>29</sup>             | 25167-67-3           |
| Cycloheptane <sup>29</sup>       | *                    |
| Cyclohexene <sup>29</sup>        | *                    |
| Cyclooctane <sup>29</sup>        | *                    |
| Decane <sup>29</sup>             | *                    |
| Dihydronaphthalene <sup>29</sup> | *                    |
| Dodecane <sup>29</sup>           | *                    |
| Heptane <sup>29</sup>            | *                    |
| Hexane <sup>30</sup>             | *                    |
| Hexene <sup>29</sup>             | 25264-93-1           |
| Methylindan <sup>29</sup>        | 27133-93-3           |
| Nonane <sup>29</sup>             | *                    |
| Octane <sup>29</sup>             | *                    |
| Pentane <sup>29</sup>            | *                    |
| Pentene <sup>29</sup>            | *                    |
| Terpene <sup>29</sup>            | 68956-56-9           |
| Trimethylbenzene <sup>29</sup>   | 25551-13-7           |
| Xylene <sup>29</sup>             | 1330-20-7            |

### Other Groups and Mixtures

| Name                           | CAS No. <sup>1</sup> |
|--------------------------------|----------------------|
| Creosote                       | 8001-58-9            |
| Heavy aromatic solvent naphtha | 64742-94-5           |
| Light aromatic solvent naphtha | 64742-95-6           |
| Mineral spirits                | 64475-85-0           |
| Naphtha                        | 8030-30-6            |
| Stoddard solvent               | 8052-41-3            |

- 29 "all isomers."
- 30 "all isomers", excluding *n*-hexane (CAS No. 110-54-3).
- 31 "all isomers", excluding 1,2,4-trimethylbenzene (CAS No. 95-63-6).