

# Anhang I zur VO Nr. 1005/2009/EG

## Geregelte Stoffe

| Gruppe     | Stoff  |                         | Ozonabbaupotential <sup>(1)</sup> |
|------------|--|-------------------------|-----------------------------------|
| Gruppe I   | CFCl <sub>3</sub>  | (CFC-11)                | 1,0                               |
|            | CF <sub>2</sub> Cl <sub>2</sub>                              | (CFC-12)                | 1,0                               |
|            | C <sub>2</sub> F <sub>3</sub> Cl <sub>3</sub>                | (CFC-113)               | 0,8                               |
|            | C <sub>2</sub> F <sub>4</sub> Cl <sub>2</sub>                | (CFC-114)               | 1,0                               |
|            | C <sub>2</sub> F <sub>5</sub> Cl                             | (CFC-115)               | 0,6                               |
| Gruppe II  | CF <sub>3</sub> Cl   | (CFC-13)                | 1,0                               |
|            | C <sub>2</sub> FCl <sub>5</sub>                              | (CFC-111)               | 1,0                               |
|            | C <sub>2</sub> F <sub>2</sub> Cl <sub>4</sub>                | (CFC-112)               | 1,0                               |
|            | C <sub>3</sub> FCl <sub>7</sub>                              | (CFC-211)               | 1,0                               |
|            | C <sub>3</sub> F <sub>2</sub> Cl <sub>6</sub>                | (CFC-212)               | 1,0                               |
|            | C <sub>3</sub> F <sub>3</sub> Cl <sub>5</sub>                | (CFC-213)               | 1,0                               |
|            | C <sub>3</sub> F <sub>4</sub> Cl <sub>4</sub>                | (CFC-214)               | 1,0                               |
|            | C <sub>3</sub> F <sub>5</sub> Cl <sub>3</sub>                | (CFC-215)               | 1,0                               |
|            | C <sub>3</sub> F <sub>6</sub> Cl <sub>2</sub>                | (CFC-216)               | 1,0                               |
|            | C <sub>3</sub> F <sub>7</sub> Cl                             | (CFC-217)               | 1,0                               |
| Gruppe III | CF <sub>2</sub> BrCl   | (Halon 1211)            | 3,0                               |
|            | CF <sub>3</sub> Br   | (Halon 1301)            | 10,0                              |
|            | C <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>                | (Halon 2402)            | 6,0                               |
| Gruppe IV  | CCl <sub>4</sub>   | (Tetrachlorkohlenstoff) | 1,1                               |
| Gruppe V   | C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> <sup>(2)</sup> | (1,1,1-trichlorethan)   | 0,1                               |
| Gruppe VI  | CH <sub>3</sub> Br   | (Methylbromid)          | 0,6                               |
| Gruppe VII | CHFBr <sub>2</sub>   |                         | 1,00                              |
|            | CHF <sub>2</sub> Br  |                         | 0,74                              |
|            | CH <sub>2</sub> FBr  |                         | 0,73                              |
|            | C <sub>2</sub> HFBr <sub>4</sub>                             |                         | 0,8                               |
|            | C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub>               |                         | 1,8                               |
|            | C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub>               |                         | 1,6                               |
|            | C <sub>2</sub> HF <sub>4</sub> Br                            |                         | 1,2                               |
|            | C <sub>2</sub> H <sub>2</sub> FBr <sub>3</sub>               |                         | 1,1                               |
|            | C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub> |                         | 1,5                               |
|            | C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br              |                         | 1,6                               |
|            | C <sub>2</sub> H <sub>3</sub> FBr <sub>2</sub>               |                         | 1,7                               |
|            | C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br              |                         | 1,1                               |
|            | C <sub>2</sub> H <sub>4</sub> FBr                            |                         | 0,1                               |
|            | C <sub>3</sub> HFBr <sub>6</sub>                             |                         | 1,5                               |

|                 |                 |                              |                            |       |
|-----------------|-----------------|------------------------------|----------------------------|-------|
|                 | $C_3HF_2Br_5$   |                              | 1,9                        |       |
|                 | $C_3HF_3Br_4$   |                              | 1,8                        |       |
|                 | $C_3HF_4Br_3$   |                              | 2,2                        |       |
| Gruppe VII      | $C_3HF_5Br_2$   |                              | 2,0                        |       |
|                 | $C_3HF_6Br$     |                              | 3,3                        |       |
|                 | $C_3H_2FBr_5$   |                              | 1,9                        |       |
|                 | $C_3H_2F_2Br_4$ |                              | 2,1                        |       |
|                 | $C_3H_2F_3Br_3$ |                              | 5,6                        |       |
|                 | $C_3H_2F_4Br_2$ |                              | 7,5                        |       |
|                 | $C_3H_2F_5Br$   |                              | 1,4                        |       |
|                 | $C_3H_3FBr_4$   |                              | 1,9                        |       |
|                 | $C_3H_3F_2Br_3$ |                              | 3,1                        |       |
|                 | $C_3H_3F_3Br_2$ |                              | 2,5                        |       |
|                 | $C_3H_3F_4Br$   |                              | 4,4                        |       |
|                 | $C_3H_4FBr_3$   |                              | 0,3                        |       |
|                 | $C_3H_4F_2Br_2$ |                              | 1,0                        |       |
|                 | $C_3H_4F_3Br$   |                              | 0,8                        |       |
|                 | $C_3H_5FBr_2$   |                              | 0,4                        |       |
|                 | $C_3H_5F_2Br$   |                              | 0,8                        |       |
|                 | $C_3H_6FBr$     |                              | 0,7                        |       |
|                 | Gruppe VIII     | $CHFCl_2$                    | (H-FCKW-21) <sup>(3)</sup> | 0,040 |
|                 |                 | $CHF_2Cl$                    | (H-FCKW-22) <sup>(3)</sup> | 0,055 |
| $CH_2FCl$       |                 | (H-FCKW-31)                  | 0,020                      |       |
| $C_2HFCl_4$     |                 | (H-FCKW-121)                 | 0,040                      |       |
| $C_2HF_2Cl_3$   |                 | (H-FCKW-122)                 | 0,080                      |       |
| $C_2HF_3Cl_2$   |                 | (H-FCKW-123) <sup>(3)</sup>  | 0,020                      |       |
| $C_2HF_4Cl$     |                 | (H-FCKW-124) <sup>(3)</sup>  | 0,022                      |       |
| $C_2H_2FCl_3$   |                 | (H-FCKW-131)                 | 0,050                      |       |
| $C_2H_2F_2Cl_2$ |                 | (H-FCKW-132)                 | 0,050                      |       |
| $C_2H_2F_3Cl$   |                 | (H-FCKW-133)                 | 0,060                      |       |
| $C_2H_3FCl_2$   |                 | (H-FCKW-141)                 | 0,070                      |       |
| $CH_3CFCl_2$    |                 | (H-FCKW-141b) <sup>(3)</sup> | 0,110                      |       |
| $C_2H_3F_2Cl$   |                 | (H-FCKW-142)                 | 0,070                      |       |
| $CH_3CF_2Cl$    |                 | (H-FCKW-142b) <sup>(3)</sup> | 0,065                      |       |
| $C_2H_4FCl$     |                 | (H-FCKW-151)                 | 0,005                      |       |
| $C_3HFCl_6$     |                 | (H-FCKW-221)                 | 0,070                      |       |
| $C_3HF_2Cl_5$   |                 | (H-FCKW-222)                 | 0,090                      |       |
| $C_3HF_3Cl_4$   |                 | (H-FCKW-223)                 | 0,080                      |       |
| $C_3HF_4Cl_3$   |                 | (H-FCKW-224)                 | 0,090                      |       |
| $C_3HF_5Cl_2$   |                 | (H-FCKW-225)                 | 0,070                      |       |

|                    |   |                               |       |
|--------------------|---|-------------------------------|-------|
|                    | $\text{CF}_3\text{CF}_2\text{CHCl}_2$       | (H-FCKW-225ca) <sup>(3)</sup> | 0,025 |
|                    | $\text{CF}_2\text{ClCF}_2\text{CHClF}$      | (H-FCKW-225cb) <sup>(3)</sup> | 0,033 |
|                    | $\text{C}_3\text{HF}_6\text{Cl}$            | (H-FCKW-226)                  | 0,100 |
|                    | $\text{C}_3\text{H}_2\text{FCl}_5$          | (H-FCKW-231)                  | 0,090 |
|                    | $\text{C}_3\text{H}_2\text{F}_2\text{Cl}_4$ | (H-FCKW-232)                  | 0,100 |
|                    | $\text{C}_3\text{H}_2\text{F}_3\text{Cl}_3$ | (H-FCKW-233)                  | 0,230 |
|                    | $\text{C}_3\text{H}_2\text{F}_4\text{Cl}_2$ | (H-FCKW-234)                  | 0,280 |
|                    | $\text{C}_3\text{H}_2\text{F}_5\text{Cl}$   | (H-FCKW-235)                  | 0,520 |
| <b>Gruppe VIII</b> | $\text{C}_3\text{H}_3\text{FCl}_4$          | (H-FCKW-241)                  | 0,090 |
|                    | $\text{C}_3\text{H}_3\text{F}_2\text{Cl}_3$ | (H-FCKW-242)                  | 0,130 |
|                    | $\text{C}_3\text{H}_3\text{F}_3\text{Cl}_2$ | (H-FCKW-243)                  | 0,120 |
|                    | $\text{C}_3\text{H}_3\text{F}_4\text{Cl}$   | (H-FCKW-244)                  | 0,140 |
|                    | $\text{C}_3\text{H}_4\text{FCl}_3$          | (H-FCKW-251)                  | 0,010 |
|                    | $\text{C}_3\text{H}_4\text{F}_2\text{Cl}_2$ | (H-FCKW-252)                  | 0,040 |
|                    | $\text{C}_3\text{H}_4\text{F}_3\text{Cl}$   | (H-FCKW-253)                  | 0,030 |
|                    | $\text{C}_3\text{H}_5\text{FCl}_2$          | (H-FCKW-261)                  | 0,020 |
|                    | $\text{C}_3\text{H}_5\text{F}_2\text{Cl}$   | (H-FCKW-262)                  | 0,020 |
|                    | $\text{C}_3\text{H}_6\text{FCl}$            | (H-FCKW-271)                  | 0,030 |
| <b>Gruppe IX</b>   | $\text{CH}_2\text{BrCl}$                    | (Halon 1011 Chlorbrommethan)  | 0,12  |

(1) Diese Ozonabbaupotentiale sind Schätzungen aufgrund derzeitiger Erkenntnisse.  
Diese werden anhand der von den Vertragsparteien gefassten Beschlüsse regelmäßig überprüft und revidiert.

(2) Diese Formel bezieht sich nicht auf 1,1,2-Trichlorethan.

(3) Kennzeichnet die kommerziell gängigsten Stoffe entsprechend dem Protokoll