



## Nationale Grundwasserbeobachtung NAQUA

Bundesamt für Umwelt BAFU

### Flüchtige halogenierte Kohlenwasserstoffe (FHKW) im Grundwasser

Zeitraum 2007 - 2022  
Messstellen Module TREND und SPEZ  
Bemerkungen Maximalwert pro Messstelle

| Substanz   | Messstellen [Anzahl]  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
|--|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|
|  | Konzentration >1 µg/l |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
|  | 2007                  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2007-2022 |
| <b>Flüchtige halogenierte Kohlenwasserstoffe (FHKW)</b>    |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
| 1,1,1-Trichlorethan  | 5                     | 4    | 4    | 6    | 4    | 3    | 4    | 3    | 2    | 3    | 4    | 2    | 2    | 2    | 2    | 2    | 6         |
| 1,2,3-Trichlorbenzol                                       | 1                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1         |
| 1,2,4-Trichlorbenzol                                       | 1                     | -    | -    | 1    | -    | -    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | -    | 1         |
| 1,2-Dichlorbenzol  | 1                     | -    | -    | 1    | 1    | -    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | -    | 1         |
| 1,3-Dichlorpropan  | -                     | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1         |
| Bromdichlormethan  | -                     | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 1         |
| cis-1,2-Dichlorethen                                       | -                     | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1         |
| Dichlordifluormethan                                       | 2                     | 2    | 2    | 3    | 1    | 1    | -    | 1    | 1    | -    | 1    | -    | 1    | 1    | 1    | -    | 4         |
| Dichlormethan  | -                     | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1         |
| Tetrachlorethen  | 20                    | 17   | 19   | 19   | 20   | 16   | 14   | 17   | 16   | 13   | 12   | 13   | 13   | 12   | 12   | 12   | 33        |
| Tribrommethan  | -                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1    | 1    | -    | -    | -    | -    | 1         |
| Trichlorethen  | 3                     | 3    | 3    | 2    | 2    | -    | -    | -    | 1    | 1    | -    | 1    | -    | -    | 1    | 1    | 6         |
| Trichlorfluormethan  | 1                     | 1    | 1    | 1    | 1    | -    | 1    | 1    | 1    | -    | 1    | 1    | -    | 1    | -    | -    | 2         |
| Trichlormethan   | -                     | 1    | 2    | 1    | 1    | -    | 1    | -    | 1    | -    | -    | 1    | -    | -    | -    | -    | 5         |
| <b>Monozyklische aromatische Kohlenwasserstoffe (MAKW)</b> |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
| 1,2,3-Trimethylbenzol                                      | -                     | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 1         |
| 1,2,4-Trimethylbenzol                                      | -                     | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 1         |
| 1,3,5-Trimethylbenzol                                      | -                     | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 1         |
| Ethylbenzol  | 1                     | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 2         |
| m/p-Xylol  | -                     | -    | 1    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 2         |
| o-Xylol  | -                     | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | 1         |
| Styrol   | 1                     | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 2         |
| Toluol   | -                     | 1    | 1    | -    | -    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 3         |
| <b>Weitere flüchtige organische Verbindungen</b>           |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
| 1,1,2,2-Tetramethoxyethan                                  | /                     | /    | /    | /    | /    | /    | 1    | /    | /    | 1    | /    | /    | /    | /    | /    | /    | 1         |
| 1,4-Dioxan   | /                     | /    | /    | /    | 2    | 1    | -    | 2    | 1    | -    | -    | -    | -    | -    | -    | -    | 5         |
| ETBE   | -                     | -    | 1    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 2         |
| MTBE   | 1                     | 2    | 3    | 1    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    | 1    | -    | 8         |
| TBA  | -                     | -    | -    | -    | -    | 1    | 1    | -    | -    | -    | -    | -    | 1    | -    | -    | -    | 3         |
| <b>Konzentration &gt;0,1 µg/l</b>                          |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
| <b>Polyzyklische aromatische Kohlenwasserstoffe (PAK)</b>  |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |
| Naphthalin   | -                     | 1    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1         |

Numerische Anforderung GSchV: 1 µg/l (FHKW, MAKW); 0,1 µg/l (PAK)

/ keine Daten