



National Groundwater Monitoring NAQUA

Federal Office for the Environment FOEN

Volatile halogenated hydrocarbons (VHH) in groundwater

Period of time 2022
Monitoring site Modules TREND and SPEZ
Comments Maximum value per monitoring site

Substances	Monitoring sites [number]			Monitoring sites [%]	
	sampled	Concentration		Concentration	
		≥LOQ	>0,1 µg/l	>1 µg/l	>1 µg/l
Volatile halogenated hydrocarbons (VHH)					
1,1,1-Trichlorethan	517	29	14	2	0,4
1,1-Dichlorethan	517	4	1	-	-
1,1-Dichlorethen	517	2	-	-	-
1,2,3-Trichlorbenzol	517	1	-	-	-
1,2,4-Trichlorbenzol*	351	1	1	-	*
1,2-Dichlorbenzol	517	1	1	-	-
1,2-Dichlorethan	517	2	-	-	-
1,2-Dichlorpropan	517	1	-	-	-
1,3,5-Trichlorbenzol*	9	1	1	-	*
1,4-Dichlorbenzol*	278	1	-	-	*
Brombenzol	517	-	-	-	-
Bromdichlormethan	514	2	-	-	-
Brommethan	515	1	1	-	-
Chlorbenzol	517	-	-	-	-
Chlorethen	517	-	-	-	-
Chlormethan	514	2	-	-	-
cis-1,2-Dichlorethen	517	5	2	-	-
Dibromchlormethan	514	2	-	-	-
Dibrommethan	517	-	-	-	-
Dichlordifluormethan	517	7	5	-	-
Dichlormethan	517	4	-	-	-
Hexachlorbutadien	517	1	1	-	-
Tetrachlorethen	517	80	56	12	2,3
Tetrachlormethan	517	3	2	-	-
Tribrommethan	516	-	-	-	-
Trichlorethen	517	40	25	1	0,2
Trichlorfluormethan	517	9	5	-	-
Trichlormethan	514	33	12	-	-
VHH, total	517	130	85	14	2,7
Monocyclic aromatic hydrocarbons (MAH)					
1,2,4-Trimethylbenzol	517	-	-	-	-
1,3,5-Trimethylbenzol	517	-	-	-	-
Benzol	517	1	1	-	-
Ethylbenzol	517	1	-	-	-
m/p-Xylol	517	6	-	-	-
o-Xylol	517	3	-	-	-
Styrol	517	1	1	-	-
Toluol	515	8	3	-	-
MAH, total	517	12	5	-	-
Other volatile organic compounds					
1,4-Dioxan*	212	10	7	-	*
ETBE	517	1	-	-	-
MTBE	517	22	2	-	-
TBA*	112	2	-	-	*
>0,1 µg/l					
Polycyclic aromatic hydrocarbons (PAH)					
2-Methylnaphthalin*	9	1	-	-	*
Naphthalin	517	1	-	-	-
PAH, total	517	1	-	-	-

WPO numerical requirement: 1 µg/l (VHH, MAH); 0,1 (PAH)

LOQ limit of quantitation

* lack of statistical reliable data at the national scale