

## Analysis of the „Rosenquelle“

The analysis of the main substances in the spring (as per definition 2.1.1.14 with more than 20% equivalent proportion of the total concentration) shows: sodium (Na), chloride (Cl) and hydrogen carbonate (HCO<sub>3</sub>).

The analysis of the spring water (value over 5mg/l) shows on average of the last 10 years:

Physical, physics,-chem. examination

Flavor: sulphidic, salty, spring typical

Smell: sulphidic

Water temperature: 47° C

PH value: 20°C

Amount of the dissolved solid components 4,260 g/l

(Cations, anions, undissociated substances, carbon dioxide, hydrogen sulfide)

Sodium (Na) 1.220 mg/l	Iron (Fe), total 0,080 mg/l
Potassium (K) 67,600 mg/l	Fluoride (F) 5,600 mg/l
Ammonium (NH <sub>4</sub> <sup>+</sup> ) 2,160 mg/l	Nitrite (NO <sub>2</sub> ) 0,010 mg/l
Calcium (Ca) 73,800 mg/l	Manganese (Mn), total 0,017 mg/l
Magnesium (Mg) 9,200 mg/l	Metasilic acid (H <sub>2</sub> SiO <sub>3</sub> ) 83,400 mg/l
Chloride (Cl) 1.446 mg/l	Carbon dioxide (CO <sub>2</sub> ) 172,000 mg/l
Hydrogen carbonate (HCO <sub>3</sub> ) 862,000 mg/l	Carbonate hardness (KH) 12,500°dH
Sulfate (SO <sub>4</sub> ) 266,000 mg/l	Dihydrogen sulfide (H <sub>2</sub> S) 3,230 m g/l
Silicate (H <sub>2</sub> SiO <sub>3</sub> ) 85,000 mg/l	Hydrogen sulfide (HS) 1,740 mg/l
Total hardness of water (GH) 12,500°dH	

Trace components:

Arsenic (As) 0,0340 mg/l	Lead (Pb) <0,0050 mg/l
Cadmium (Cd) 0,0005 mg/l	Selenium (Se) <0,0005 mg/l
Mercury (Hg) <0,0001 mg/l	Zinc (Zn) <0,0100 mg/l
Nickel (Ni) <0,0100 mg/l	Silver (Ag) <0,0010 mg/l