

CHEMICAL COMPOSITION AND PHYSICAL PROPERTIES OF THE WATER

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THERMAL HEALTH RESORT LIPIK

1 L of water contains:	mg	mmol	mval	mval %
<i>Cations:</i>				
Lithium Li ⁺	0,294	0,042	0,042	0,10
Sodium Na ⁺	815,000	35,45	35,45	87,18
Potassium K ⁺	86,000	2,200	2,200	5,41
Ammonia NH ₄ ⁺	2,979	0,165	0,1655	0,41
Magnesium Mg ⁺⁺	15,000	0,617	1,234	3,04
Calcium Ca ⁺⁺	21,000	0,773	4,391	3,80
Strontium Sr ⁺⁺	0,814	0,009	0,019	0,05
Chromium Cr ⁺⁺	0,000	0,000	0,000	0,00
Manganese Mn ⁺⁺	0,010	0,000	0,000	0,00
Copper Cu ⁺⁺	0,004	0,000	0,000	0,00
Zinc Zn ⁺⁺	0,010	0,000	0,000	0,00
Nickel Ni ⁺⁺	0,000	0,000	0,000	0,00
Lead Pb ⁺⁺	0,001	0,000	0,000	0,00
Iron Fe ⁺⁺	0,090	0,002	0,003	0,01
Arsenic As ⁺⁺⁺	0,001	0,000	0,001	
		39,260	40,662	100,00
<i>Anions:</i>				
Fluoride F ⁻	10,100	0,532	0,532	1,26
Chloride Cl ⁻	480,700	13,559	13,559	32,25
Bromide Br ⁻	1,800	0,023	0,023	0,05
Iodide I ⁻	0,200	0,002	0,002	0,00
Nitrite NO ₂ ⁻	0,035	0,000	0,000	0,00
Nitrate NO ₃ ⁻	0,003	0,000	0,000	0,21
Hydrogencarbonate HCO ₃ ⁻	1423,000	23,321	23,321	55,48
Sulphate SO ₄ ⁻⁻⁻	221,000	2,301	4,601	10,95
Hydrogen phosphate HPO ₄ ⁻⁻⁻	0,016	0,000	0,000	0,00
		39,737	42,038	100,00
<i>Undissociated:</i>				
Silicic acids H ₂ SiO ₃	33,020	0,704		
ukupno:		79,419	82,699	
<i>Mineralization:</i>				
Hydrogen sulphide H ₂ S	0,030		Electrical conductivity mS ⁻¹	3570,0
Carbon dioxide CO ₂	13,63		Water temperature °C	61,1
pH (at 20 °C)	7,0		Sulphate control comp. mg /l	2926,19
Evaporation residue (105 °C)	2386,00		KMnO ₄ mg/lit consumption	2,1
Evaporation residue (180 °C)	2310,00			
Evaporation residue computational	2397,82			

Bold characterizes water

THE THERMO MINERAL WATER OF LIPIK



A SOURCE OF HEALTH, VITALITY AND BALANCE



Health tourism
Croatia



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The thermomineral water of Lipik



Lipik's thermomineral water is a natural elixir with exceptional balneotherapeutic properties. Rich in minerals such as fluoride, sodium, chloride and bicarbonate, this water, with temperatures ranging from 60°C to 64°C at its spring, provides a potent therapeutic impact for the entire body.

Unchanged over the centuries – nature's wisdom in every drop

Lipik had already become renowned as a spa in the 19th century thanks to its natural thermal springs. Although its original springs had dried out over time, the town of Lipik was among the first in Europe to develop a system of wells from which the water is pumped to this day. This water, believed to be between 30,000 and 40,000 years old, is the product of precipitation that filtered through deep geological layers over the course of millennia. Regular analyses conducted since 1839 show that the water's chemical composition has not significantly changed for over 180 years, which confirms its stability and exceptional quality.

Drinking water – Lipički Studenac

Lipički Studenac is a carbonated natural mineral water that springs from a depth of 380 meters, protected from external influences. With over 150 years of tradition, it assures impeccable quality and is an ideal choice for the daily intake of fluids and minerals.

Lipik's thermal water is interwoven into Lipički Studenac.

Therapeutic use in Thermal Health Resort Lipik

The medicinal thermomineral water in Thermal Health Resort Lipik is used in balneotherapy and as a supplement to physical therapy, contributing to the alleviation and treatment of various health-related hardships, particularly as a component of rehabilitation for:

- **back pains and pinched nerves**
- **neurological conditions and ailments**
- **rheumatic inflammation**
- **post-operative conditions**
- **degenerative spinal and joint ailments**
- **overuse syndromes**

Moreover, it may have beneficial effects in cases of:

- **gynaecological problems and digestive ailments**
- **psychosomatic disorders, stress and sleep disorders**
- **endocrine diseases and ageing symptoms**



Scientific research and over a century of practice have confirmed that regular application of thermal mineral water considerably improves mobility, relieves pain and contributes to a better quality of life. It has been proven particularly effective in the treatment of musculoskeletal and neurological disorders, including post-stroke recovery – where it contributes to pain relief, improvement of functionality and more rapid rehabilitation.

Important – contraindications

Balneotherapy is not recommended for persons suffering from malignant diseases, acute infections and inflammation, tuberculosis, aneurysms, acute thrombophlebitis, severe hypertension, psychological crises, epilepsy, incontinence, brittle diabetes and addictions, nor during pregnancy.

Feel the power of nature – come to Lipik and discover a source of health that has endured for centuries!