



Quantitative chemical analysis

Gerolsteiner Stille Quelle

Excerpt from the **approval analysis** done by the Fresenius Institute, dated April 23rd 1986. Besides continuous controls by the company laboratory, regular **control analyses** are conducted by the Fresenius Institute.

One liter of „Gerolsteiner Stille Quelle“ water contains:

	Mass Concentration mg/l	Equivalent Concentration mmol/l	Equivalent Part %
Kationen			
Lithium (Li ⁺)	0.13	0.0187	0.06
Sodium (Na ⁺)	118.00	5.1760	16.30
Potassium (K ⁺)	10.80	0.2762	0.85
Ammonium (NH ₄ ⁺)	0.08	0.0044	0.01
Magnesium (Mg ₂ ⁺)	108.00	8.8870	27.98
Calcium (Ca ₂ ⁺)	348.00	17.3200	54.69
Strontium (Sr ₂ ⁺)	2.90	0.0662	0.21
Barium (Ba ₂ ⁺)	0.014	0.0002	-
Manganese (Mn ₂ ⁺)	0.39	0.0142	0.04
Sum		31.76	100.00
Anions			
Fluoride (F)	0.21	0.0111	0.03
Chloride (Cl)	39.70	1.1200	3.52
Bromide (Br)	0.12	0.0015	-
Nitrate (NO ₃ ⁻)	5.10	0.0823	0.28
Sulfate (SO ₄ ²⁻)	38.30	0.7974	2.51
Hydrogen phosphate (HPO ₄ ²⁻)	0.07	0.0015	-
Hydrogen carbonate (HCO ₃ ⁻)	1 816.00	29.7600	93.64
Sum	2 488.00	31.78	100.00

A standard bottle has the following carbon dioxide (CO₂) content:

Gerolsteiner	Stille	Quelle	4.500	mg/l
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