

Seawater Analysis Project

Major ionic species in seawater

Pacific Ocean Water Concentrations /
mg L⁻¹

Ion	CRC values ^a
Na ⁺	1.05 × 10 ⁴
K ⁺	3.80 × 10 ²
Mg ²⁺	1.35 × 10 ³
Ca ²⁺	4.00 × 10 ²
Cl ⁻	1.90 × 10 ⁴
SO ₄ ²⁻	2.65 × 10 ³
Br ⁻	6.5 × 10 ¹

Concentrations

Cl⁻ - 536 mM

Na⁺ - 457 mM

Mg²⁺ - 56.3 mM

SO₄²⁻ - 27.6 mM

Ca²⁺ - 10.0 mM

K⁺ - 9.74 mM

Br⁻ - 0.823 mM

^aCRC Handbook of Chemistry and Physics, 61st ed.

We will measure six of the top seven ions in sea water!

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