

Mass concentration (w/v) $\pm$ expanded measurement uncertainty

1.10580.0100				
HC90322780				
Element	Certified value mg/l	Uncertainty mg/l	Traceable to SRM®	Batch Code
Ag	10.0	± 0.5	SRM 3151	160729
Al	9.6	± 0.5	SRM 3101a	140903
As	97	± 5	SRM 3103a	100818
B	98	± 5	SRM 3107	110830
Ba	9.9	± 0.5	SRM 3104a	140909
Be	102	± 5	SRM 3105a	090514
Bi	9.8	± 0.5	SRM 3106	180815
Ca	1006	± 20	SRM 3109a	130213
Cd	10.0	± 0.5	SRM 3108	130116
Co	10.0	± 0.5	SRM 3113	000630
Cr	10.0	± 0.5	SRM 3112a	170630
Cu	9.8	± 0.5	SRM 3114	121207
Fe	99	± 5	SRM 3126a	140812
Ga	9.8	± 0.5	SRM 3119a	140124
K	9.9	± 0.5	SRM 3141a	140813
Li	9.8	± 0.5	SRM 3129a	100714
Mg	9.8	± 0.5	SRM 3131a	140110
Mn	10.0	± 0.5	SRM 3132	050429
Mo	9.9	± 0.5	SRM 3134	130418
Na	9.6	± 0.5	SRM 3152a	120715
Ni	9.9	± 0.5	SRM 3136	120619
Pb	9.9	± 0.5	SRM 3128	101026
Rb	9.6	± 0.5	SRM 3145a	150622
Se	101	± 5	SRM 3149	100901
Sr	9.5	± 0.5	SRM 3153a	990906
Te	9.9	± 0.5	SRM 3156	140830
Tl	10.0	± 0.5	SRM 3158	151215
U	9.9	± 0.5	SRM 3164	080521
V	10.0	± 0.5	SRM 3165	160906
Zn	100	± 5	SRM 3169a	120629

This Certificate of Analysis is based on the data from the accredited Merck, Darmstadt, Germany Calibration Laboratory according to DIN EN ISO/IEC 17025.

The expanded measurement uncertainty U is calculated as $U = k \cdot u_{\text{characterisation}}$, where $k = 2$ is the coverage factor for a 95% coverage probability and $u_{\text{characterisation}}$ is the combined measurement uncertainty in accordance to DIN EN ISO/IEC 17025.

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