

Quality control material - Light sandy soil (metals), normal analyte levels

Art. ID	AP-METRANAL-31
Unit	80 g
Deliverydetails	No Dangerous Good /not restricted

Description

The property values were assigned in 5 - 25 experienced accredited laboratories (ISO 17025) by using validated analytical methods.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	12,3	µg/g	Total element content	
Dry mass at 105 °C	Barium (Ba)	[7440-39-3]	970	µg/g	Total element content	
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	3,32 ± 0,26	µg/g	Total element content	
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	0,32 ± 0,05	µg/g	Total element content	
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	9,66 ± 0,61	µg/g	Total element content	
Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	89,6 ± 4,2	µg/g	Total element content	
Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	30,8 ± 0,9	µg/g	Total element content	
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	0,087 ± 0,006	µg/g	Total element content	
Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	540 ± 20	µg/g	Total element content	
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	31,9 ± 1,6	µg/g	Total element content	

Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	43,8 ± 3,7	µg/g	Total element content
Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	58,7 ± 6,3	µg/g	Total element content
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	120 ± 7	µg/g	Total element content
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	10,4 ± 1,0	µg/g	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Barium (Ba)	[7440-39-3]	108	µg/g	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	1,02 ± 0,10	µg/g	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	0,29 ± 0,04	µg/g	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	9,15 ± 0,47	µg/g	Aqua regia extractable content according to ISO 11466 (1995)

					to ISO 11 466 (1995)
Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	71,9 ± 5,9	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	28,9 ± 0,8	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	0,085	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	479 ± 18	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	31,8 ± 1,2	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	24,1 ± 1,7	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)

Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	52,0 ± 3,4	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	108 ± 3,5	µg/g	Aqua regia extractable content according to ISO 11 466 (1995)
dry weight, (% of the oxides)	SiO ₂		65,06	%	
dry weight, (% of the oxides)	Al ₂ O ₃		15,41	%	
dry weight, (% of the oxides)	CaO		1,5	%	
dry weight, (% of the oxides)	MgO	[1309-48-4]	1,27	%	
dry weight, (% of the oxides)	Fe ₂ O ₃		4,73	%	
dry weight, (% of the oxides)	K ₂ O		3,16	%	
dry weight, (% of the oxides)	Na ₂ O		2,35	%	
dry weight, (% of the oxides)	P ₂ O ₅		0,34	%	
dry weight, (% of the oxides)	TiO ₂		0,52	%	
at 900 °C	Loss on Ignition (LOI)		5,1	%	