

## Trace Elements in Coal (Bituminous)

Art. ID	NIST-8499
Unit	50 g
Deliverydetails	No Dangerous Good /not restricted

### Description

This reference material is intended primarily for use in process control in the analysis of coals and materials of a similar matrix. A unit of NIST-8499 consists of 50 g of bituminous coal that was ground to pass a 250 µm (60 mesh) sieve, homogenized, bottled under an argon atmosphere, and sealed in an aluminized bag. /// Sample value(s) - please ask for current report of investigation.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Non-Certified Mass Fraction Value	Hydrogen (H)	[1333-74-0]	4,97 ± 0,16	%		
Non-Certified Mass Fraction Value	Iron (Fe)	[7439-89-6]	1,42 ± 0,13	%		
Non-Certified Mass Fraction Value	Silicon (Si)	[7440-21-3]	1,81 ± 0,13	%		
Non-Certified Mass Fraction Value	Sulfur (S)	[7704-34-9]	2,738 ± 0,057	%		
Non-Certified Mass Fraction Value	Aluminium (Al)	[7429-90-5]	0,960 ± 0,049	%		
Non-Certified Mass Fraction Value	Calcium (Ca)	[7440-70-2]	0,1714 ± 0,0084	%		
Non-Certified Mass Fraction Value	Potassium (K)	[7440-09-7]	0,1248 ± 0,0052	%		
Non-Certified Mass Fraction Value	Antimony (Sb)	[7440-36-0]	0,428 ± 0,040	mg/kg		
Non-Certified Mass Fraction Value	Arsenic (As)	[7440-38-2]	8,55 ± 0,49	mg/kg		
Non-Certified Mass Fraction Value	Barium (Ba)	[7440-39-3]	62,8 ± 3,5	mg/kg		
Non-Certified Mass Fraction Value	Boron (B)	[7440-42-8]	75,7 ± 4,1	mg/kg		
Non-Certified Mass Fraction Value	Bromine (Br)	[7726-95-6]	11,9 ± 1,0	mg/kg		
Non-Certified Mass Fraction Value	Cerium (Ce)	[7440-45-1]	12,24 ± 0,27	mg/kg		
Non-Certified Mass Fraction Value	Cesium (Cs)		0,648 ± 0,021	mg/kg		

tion Value				
Non-Certified Mass Frac	Chlorine (Cl)	[7782-50-5]	963 ± 23	mg/kg
tion Value				
Non-Certified Mass Frac	Chromium (Cr)	[7440-47-3]	16,57 ± 0,34	mg/kg
tion Value				
Non-Certified Mass Frac	Cobalt (Co)	[7440-48-4]	3,622 ± 0,090	mg/kg
tion Value				
Non-Certified Mass Frac	Copper (Cu)	[7440-50-8]	5,70 ± 0,14	mg/kg
tion Value				
Non-Certified Mass Frac	Europium (Eu)	[7440-53-1]	0,2457 ± 0,0063	mg/kg
tion Value				
Non-Certified Mass Frac	Magnesium (Mg)	[7439-95-4]	391 ± 32	mg/kg
tion Value				
Non-Certified Mass Frac	Manganese (Mn)	[7439-96-5]	18,4 ± 1,1	mg/kg
tion Value				
Non-Certified Mass Frac	Mercury (Hg)	[7439-97-6]	0,1351 ± 0,0035	mg/kg
tion Value				
Non-Certified Mass Frac	Nickel (Ni)	[7440-02-0]	11,08 ± 0,35	mg/kg
tion Value				
Non-Certified Mass Frac	Rubidium (Rb)	[7440-17-7]	8,49 ± 0,87	mg/kg
tion Value				
Non-Certified Mass Frac	Scandium (Sc)	[7440-20-2]	3,583 ± 0,088	mg/kg
tion Value				
Non-Certified Mass Frac	Selenium (Se)	[7782-49-2]	1,525 ± 0,078	mg/kg
tion Value				
Non-Certified Mass Frac	Sodium (Na)	[7440-23-5]	374 ± 16	mg/kg
tion Value				
Non-Certified Mass Frac	Strontium (Sr)	[7440-24-6]	84,1 ± 5,3	mg/kg
tion Value				
Non-Certified Mass Frac	Titanium (Ti)	[7440-32-6]	519 ± 19	mg/kg
tion Value				
Non-Certified Mass Frac	Uranium (U)	[7440-61-1]	0,636 ± 0,032	mg/kg
tion Value				
Non-Certified Mass Frac	Vanadium (V)	[7440-62-2]	29,2 ± 1,5	mg/kg
tion Value				
Non-Certified Mass Frac	Zinc (Zn)	[7440-66-6]	13,0 ± 1,3	mg/kg
tion Value				