

Out of Stock - Item is not available at this time - Coal (bituminous) - Elements

Art. ID NIST-1632e
Unit 50 g
Deliverydetails No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended primarily for use in the evaluation of techniques used in the analysis of coals and materials of a similar matrix. A unit of NIST-1632e 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 certificate.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|--|-------------------|-------------|---------------------|-------|--------|--------|
| Certified Mass Fraction Values (Dry-Mass Basis) | Iron (Fe) | [7439-89-6] | 1,42 ± 0,13 | % | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Silicon (Si) | [7440-21-3] | 1,81 ± 0,13 | % | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Sulfur (S) | [7704-34-9] | 2,738 ± 0,057 | % | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Aluminium (Al) | [7429-90-5] | 0,960 ± 0,049 | % | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Calcium (Ca) | [7440-70-2] | 0,1714 ± 0,0084 | % | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Potassium (K) | [7440-09-7] | 0,1248 ± 0,0052 | % | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Mercury (Hg) | [7439-97-6] | 0,1351 ± 0,0035 | mg/kg | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Rubidium (Rb) | [7440-17-7] | 8,49 ± 0,87 | mg/kg | | |
| Certified Mass Fraction Values (Dry-Mass Basis) | Sodium (Na) | [7440-23-5] | 374 ± 16 | mg/kg | | |

| | | | | |
|--|----------------|-------------|---------------|-------|
| Certified Mass Fraction Values (Dry-Mass Basis) | Strontium (Sr) | [7440-24-6] | 84,1 ± 5,3 | mg/kg |
| Certified Mass Fraction Values (Dry-Mass Basis) | Titanium (Ti) | [7440-32-6] | 519 ± 19 | mg/kg |
| Certified Mass Fraction Values (Dry-Mass Basis) | Zinc (Zn) | [7440-66-6] | 13,0 ± 1,3 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Hydrogen (H) | [1333-74-0] | 4,97 ± 0,16 | % |
| Reference Mass Fraction Values (Dry-Mass Basis) | Antimony (Sb) | [7440-36-0] | 0,428 ± 0,040 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Arsenic (As) | [7440-38-2] | 8,55 ± 0,49 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Barium (Ba) | [7440-39-3] | 62,8 ± 3,5 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Boron (B) | [7440-42-8] | 75,7 ± 4,1 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Bromine (Br) | [7726-95-6] | 11,9 ± 1,0 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Cerium (Ce) | [7440-45-1] | 12,24 ± 0,27 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Caesium (Cs) | [7440-46-2] | 0,648 ± 0,021 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Chlorine (Cl) | [7782-50-5] | 963 ± 23 | mg/kg |
| Reference Mass Fraction Values (Dry-Mass Basis) | Chromium (Cr) | [7440-47-3] | 16,57 ± 0,34 | mg/kg |

| | | | | | |
|-------------------------|----------------|-------------|----------------|-------|---|
|) | | | | | |
| Reference Mass Fraction | Cobalt (Co) | [7440-48-4] | 3,622 ± 0,090 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Copper (Cu) | [7440-50-8] | 5,70 ± 0,14 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Europium (Eu) | [7440-53-1] | 0,2457± 0,0063 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Magnesium (Mg) | [7439-95-4] | 391 ± 32 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Manganese (Mn) | [7439-96-5] | 18,4 ± 1,1 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Nickel (Ni) | [7440-02-0] | 11,08 ± 0,35 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Scandium (Sc) | [7440-20-2] | 3,583 ± 0,088 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Selenium (Se) | [7782-49-2] | 1,525 ± 0,078 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Uranium (U) | [7440-61-1] | 0,636 ± 0,032 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |
| Reference Mass Fraction | Vanadium (V) | [7440-62-2] | 29,2 ± 1,5 | mg/kg | |
| Values (Dry-Mass Basis | | | | |) |
|) | | | | | |