

Mineral substances (1. LF UK, NT)

- organogenic elements C, O, H, N, P, S
- minerals: P, S, others (ash elements)
- gross content: ash (0.5-3% by weight)

Classification

Classification of minerals (1st LF, NT)

Fe

- heme enzymes: cytochromes, catalase, peroxidases
- non-heme enzymes: succinate dehydrogenase, xanthine oxidase, flavin oxidoreductase, aconitase
- transport proteins: haemoglobin (erythrocytes), myoglobin (muscles) O₂, transferrin (plasma) Fe
- storage proteins: ferritin, hemosiderin (spleen, liver, bone marrow)
- complexes with other compounds
- File:Complexes-Fe.jpg
- covalent compounds
- File:Kovalenty-Fe.jpg

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 For more information see iron.

Biochemical functions of essential elements

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Biochemical functions of essential elements (1st LF, NT)

Daily Mineral Doses in Nutrition

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Daily mineral intake in nutrition (1st LF, NT)}

Occurrence and significant sources of minerals

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Occurrence and significant mineral resources (1st LF, NT)

Mineral Utilization

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Mineral utilization (1st LF, NT)}

Minerals as contaminants

- permissible levels in food
- hygiene limits

Natural sources of contamination

- rock ventilation
- fires
- volcanic activity
- floods

Anthropogenic sources of contamination

- burning fossil fuels
- transport
- industry (mainly metal production)
- agriculture (fertilizers etc. chemicals)

- waste

 For more information see *Metals Contamination*.

Toxic mineral anions

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Toxic mineral anions (1st LF, NT)

Links

Source

- DAVÍDEK, Jiří. *8. MINERÁLNÍ LÁTKY* [online]. [cit. 2012-03-12]. <<https://el.lf1.cuni.cz/p31423111/>>.