

CLIL

Chemical substances

Vytvořeno v rámci projektu Zvýšení jazykové kompetence
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Erasmus + Vzdělávací mobilita jednotlivců – Mobilita – Mobilita pracovníků školy



Erasmus+

Which one is a chemical substance?

- ▶ petroleum
- ▶ glass
- ▶ ice
- ▶ iron ore
- ▶ air
- ▶ diamond
- ▶ carbon dioxide
- ▶ ethanol
- ▶ wood
- ▶ proteins
- ▶ granite
- ▶ gold
- ▶ sea water
- ▶ ammonia

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Chemical substances

have in all parts

- ▶ the same composition
- ▶ characteristic properties

Characteristic properties of chemical substances

- ▶ barva
- ▶ vůně, zápach
- ▶ skupenství
- ▶ lesk
- ▶ hustota
- ▶ bod tání nebo mrazu
- ▶ bod varu
- ▶ elektrická vodivost
- ▶ reaktivita s kyselinou
- ▶ rozpustnost
- ▶ colour
- ▶ odor
- ▶ state of matter
- ▶ luster
- ▶ density
- ▶ melting or freezing point
- ▶ boiling point
- ▶ electrical conductivity
- ▶ reactivity with acid
- ▶ solubility

Building particles of chemical substances

- ▶ free atoms
- ▶ molecules
- ▶ macromolecules
 - ▶ ions
- ▶ crystal structures

Chemical substances

Elements

- ▶ atoms have the same number of protons
- ▶ symbol
- ▶ name
 - ▶ Czech , Latin
- ▶ consist of
 - ▶ free atoms
 - ▶ molecules
 - ▶ crystal structure

Compounds

- ▶ are composed of atoms of two or more elements
- ▶ formula
- ▶ chemical nomenclature
- ▶ consist of
 - ▶ molecules
 - ▶ ions
 - ▶ macromolecules
 - ▶ crystal structure

Which word do you remember?

- ▶ chemical element
- ▶ molecula
- ▶ chemical substance
- ▶ chemical composition
- ▶ characteristic property
- ▶ density
- ▶ boiling point
- ▶ state of matter
- ▶ prvek
- ▶ molekula
- ▶ chemická látka
- ▶ chemické složení
- ▶ charakteristická vlastnost
- ▶ hustota
- ▶ bod varu
- ▶ skupenství

Tasks to do:

- ▶ Name 5 solid chemical elements and 5 solid compounds
- ▶ Name 2 liquid chemical elements and 5 liquid compounds
- ▶ Name 5 chemical elements known in Antiquity
- ▶ Name 3 chemical elements with characteristic colour
- ▶ Name 3 compounds with characteristic odor
- ▶ Name 3 chemical elements with high electrical conductivity
- ▶ Explain differences between elements and compounds