

3. Exercise General Chemistry

26.11.2023

WS 2023/24

3.1

What is the molar amount of 5 kg of hexane?

3.2

Calculate the mass fraction and mole fraction of all elements in MgNH_4PO_4 .

3.3

A compound A with a molar mass of 100 g/mol is half dimerized to A_2 . How many particles are there in 50 g of the compound?

3.4

Calculate the mass fraction of water in copper sulphate pentahydrate.

3.5

The stainless steel with the material number 1.4465 contains 25 wt .-% Cr, 24 wt .-% Ni and 2 wt .-% Mo, all the rest is iron. Calculate the molar fractions of all metals contained.