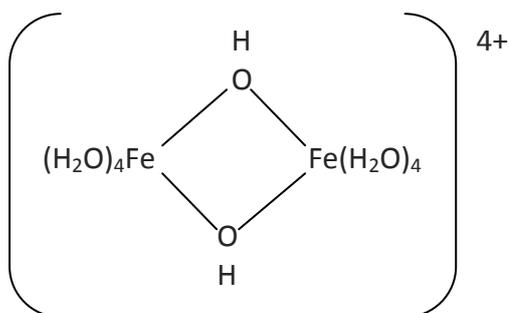


Answer on Question #76241, Chemistry / Inorganic Chemistry

$[4(\text{H}_2\text{O})\text{FeOH FeOH}(\text{H}_2\text{O})_4]^{4+}$ name of this complex.

Solution

Ligands which link two central metal atoms are usually separated from the rest of the complex by a hyphen and is/are denoted by Greek letter μ . This is repeated before the name of each bridging group in the complex.



This coordination ion is named as octaaquo- μ -dihydroxodiiron(III).

If we add anion to this coordination ion we'll get a coordination complex, for example:

$[(\text{H}_2\text{O})_4\text{Fe}(\mu_2\text{-OH})_2\text{Fe}(\text{H}_2\text{O})_4](\text{SO}_4)_2$, which is named octaaquo- μ -dihydroxodiiron(III) sulphate.

Source: Chemistry of Transition Elements, B.L.Khandelwal

Please provide the answer in doc /pdf format