

η (eta or haptic)

in inorganic nomenclature

An affix giving a topological indication of the bonding between a π -electron ligand and the central atom in a coordination entity. A right superscript numerical index indicates the number of ligating atoms in the π -electron system of the ligand which bind to the central atom. Examples:

1. $[\text{Fe}(\text{CO})_3(\text{C}_4\text{H}_6\text{SO})]$, tricarbonyl(η^2 -dihydrothiophene 1-oxide- κO)iron.
2. $[\text{Cr}(\text{CO})_4(\text{C}_4\text{H}_6)]$, tetracarbonyl(η^4 -2-methylene-1,3-propanediyl)chromium.

Source:

Red Book, p. 202

See also:

Blue Book, p. 465

PAC, 1994, 66, 1077 (*Glossary of terms used in physical organic chemistry (IUPAC Recommendations 1994)*) on page 1120