η (eta or hapto)  

_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. [Fe(CO)$_3$(C$_4$H$_6$SO)], tricarbonyl(η$^2$-dihydrothiophene 1-oxide-κO)iron.
2. [Cr(CO)$_4$(C$_4$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