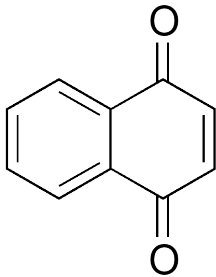
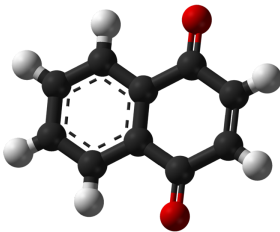


Naphthoquinone

Naphthoquinone ^[1]	
	
	
Identifiers	
CAS number	130-15-4 ^[2] ✓
SMILES	
Properties	
Molecular formula	C ₁₀ H ₆ O ₂
Molar mass	158.15 g/mol
Density	1.422 g/cm ³
Melting point	126 °C
Boiling point	Begins to sublime at 100 °C
Solubility in water	0.09 g/L
✓ (what is this?) (verify) ^[3]	
Except where noted otherwise, data are given for materials in their standard state (at 25 °C, 100 kPa)	
Infobox references	

Naphthoquinone, more precisely **1,4-naphthoquinone**, is an organic compound with formula C₁₀H₆O₂, which can be viewed as derivatives of naphthalene through the replacement of two hydrogen atoms by two ketone groups.

The name is also used generically for two other isomers:

- **1,2-Naphthoquinone**
- **2,6-Naphthoquinone** (*amphi*-naphthoquinone)

Properties

1,4-Naphthoquinone forms yellow triclinic crystals and has an odor similar to benzoquinone. It is sparingly soluble in cold water, slightly soluble in petroleum ether, and freely soluble in most polar organic solvents. In alkaline solutions it produces a reddish-brown color. Because of their aromatic stability, 1,4-naphthoquinone derivatives are known to possess anti-bacterial and anti-tumor properties.

Naphthoquinone forms the central chemical structure of many natural compounds, most notably the K vitamins.

See also

- Hydroxynaphthoquinone
- 1,4-Benzoquinone
- Quinone

References

- [1] *Merck Index*, 11th Edition, **6315**.
- [2] <http://www.commonchemistry.org/ChemicalDetail.aspx?ref=130-15-4>
- [3] <http://en.wikipedia.org/wiki/>

Article Sources and Contributors

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