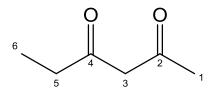
## Answer on Question#64895 – Chemistry – Organic chemistry

## Question:

Why is C6H10O2 (http://www.chemspider.com/ImagesHandler.ashx?id=68832&w=250&h=250) named as Hexane-2,4-dione instead of Hexa-2,4-dione?

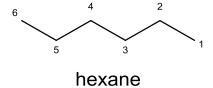
## **Answer:**



Hexane-2,4-dione

Diketones take their name from their parent alkane chains. The ending **-dione** is added to **the end of the parent chain**. Both carbonyls require a location number.

Here, the parent alkane is **hexane**.



**Hexane** + 2,4-dione = **hexane**-2,4-done, not hexa-2,4-dione. *Hexa-2,4-dione* is a mistake, because parent chain **hexa** doesn't exist.

Answer provided by <a href="https://www.AssignmentExpert.com">https://www.AssignmentExpert.com</a>