Baeyer-Villiger oxidation is the oxidation of a ketone to a carboxylic acid ester using a peroxyacid as the oxidizing agent.

**eg. 1:**

![Diagram of Baeyer-Villiger oxidation]

**Mechanism**

When the two ligands on the carbonyl carbon in the ketone are different, Baeyer-Villiger oxidation is regioselective. Of the two alpha carbons in the ketone, the one that can stabilize a positive charge more effectively, which is the more highly substituted one, migrates from carbon to oxygen preferentially.

**eg. 1:**

![Mechanism diagram]
References

4. C. H. Hassall, Org. React. 9,73 (1957); G. R. Krow,ibid. 43, 251-798 (1993);

Contributors

- Gamini Gunawardena from the OChemPal site ([Utah Valley University](#))