

Write a thoroughly studied overview within 300 words on following topics .

Recent advancements in:

1. Wagner-meerwein rearrangement
2. Demjanov rearrangement
3. Hofmann , curtius, Lossen rearrangement
4. Schmidt rearrangement
5. Beckmann rearrangement
6. Dakin reaction
7. Claisen rearrangement
8. Hoffman martius rearrangement
9. Fischer Hepp rearrangement
10. Bamberger rearrangement
11. Orton rearrangement
12. Bayer villiger oxidation
13. UV spectroscopy
14. NMR spectroscopy
15. IR spectroscopy