

CHAPTER 15

Fluorobenzene



Chlorobenzene



Bromobenzene



Iodobenzene



Toluene



Phenol



Aniline



Benzoic acid



Benzaldehyde



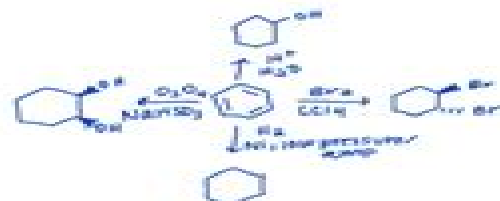
Benzenesulfonic acid



Acetophenone



Benzoic anhydride

Asymmetry Rules

1. make each center be chiral
2. make each center be planar
3. make each center be compensated
4. make each center be chiral

n	4^n - 2
0	2
1	6
2	10
3	14
4	18



Phenanthrene



Anthracene



Anthracene

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**Jay Wackerly, Sarah Zingales, Michael
Wentzel, Gautam Bhattacharyya, Brett
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not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes

Strategies and Solutions to Advanced Organic Reaction Mechanisms Andrei Hent, John Andraos, 2019-06-26 *Strategies and Solutions to Advanced Organic Reaction Mechanisms* A New Perspective on McKillop's Problems builds upon Alexander Sandy McKillop's popular text *Solutions to McKillop's Advanced Problems in Organic Reaction Mechanisms* providing a unified methodological approach to dealing with problems of organic reaction mechanism This unique book outlines the logic experimental insight and problem solving strategy approaches available when dealing with problems of organic reaction mechanism These valuable methods emphasize a structured and widely applicable approach relevant for both students and experts in the field By using the methods described advanced students and researchers alike will be able to tackle problems in organic reaction mechanism from the simple and straight forward to the advanced

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