



po 8-5

po 8-7

does not have different bond types, (i.e., C1 - C2 double bond and C2 - C3 single bond)

but, rather, all C - C bonds are the same (all bond lengths 139 pm; single = 147 pm, double = 133 pm)

explanation:

1.) resonance stabilizes system



normally shown in "delocalized" form:



2.) by MO Theory: later

chem263, fa2009 naming ... 2 new substituents:



used as prefix

-}-SO3H , sulfonic acid used as suffix



chem263, fa2009

Naming of Benzene Derivatives

- similar to cyclohexane rule (of course, no cis/trans; R/S)
- recall substituents:

halo, Me, Et, Pr, Bu

also:









chem263, fa2009 Practice



2-s-butyl-1-chloro-3-methylbenzene





po 8-6

po 8-8

