**Question ->**

Predict the product from reaction of the following substance (reddish brown = Br) with:

(a) PBr3

(b) Aqueous H2SO4

(c) SOCl2

(d) Dess-Martin Periodinane

(e) Br2, FeBr3

**Answer - >**

Alcohols when reacted with PBr3 yield the corresponding alkyl bromides along with H3B03. When treated with aqueous H2S04 they undergo dehydration to give alkenes. Dess- Martin periodinate oxidizes 20 alcohols to ketones.

(a) The product obtained when 3-(m-bromophenyl)-2-butanol is treated with PBrg.

(b) The product obtained when is treated with aqueous H2S04.

(c) The product obtained when 3-(m-bromophenyl)-2-butanol is treated with SOC12.

(d) The product obtained when 3-(m-bromophenyl)-2-butan01 is treated with Dess-Martin periodinate.

(e) The product obtained when 3-(m-bromophenyl)-2-butanol is treated Br2, FeBr3.

Thank you

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