Answer on Question#73960 – Chemistry – Organic chemistry

Question: Wurtz reaction is not very useful when two different alkyl halides are used

Answer:

Three possible compounds can be formed when two different alkyl halides are used. So, the yield of the target product cannot be more than 33.33%.

 R_1 Hal + R_2 Hal \longrightarrow R_1 \longrightarrow R_1 \longrightarrow R_1 \longrightarrow R_2 + R_1 \longrightarrow R_2 \longrightarrow R_2

Besides the product and by-products can have similar physical properties and it can be difficult to separate them.

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