

Lecture 35 CH102 A1 [TP] For (C what is the	(MWF 9.05 am) Spring 2019 H ₃) ₃ CBr + $^{-}$ OCH ₃ → (CH ₃) ₃ COCH order in $^{-}$ OCH ₃ ?	H ₃ + Br-	Copyright © 2019 E	Dan Dill dan@bu.edu
1.	1	[(CH ₃) ₃ CBr]	[-0CH ₃]	Rate (M/s)
2.	2	0.0001	0.0001	2.8 x 10 ⁻⁵
3.	Neither of the above	0.0002	0.0001	5.6 x 10 ⁻⁵
4.	More info needed	0.0001	0.0002	2.8 x 10 ⁻⁵
BOSTON	Response Counter		10	11

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[TP] For $(CH_3)_3CBr + -OCH_3 \rightarrow (CH_3)_3COCH$ what is the full differential rate law?	I ₃ + Br−		
1. rate = k_{for} [(CH ₃) ₃ CBr] [-OCH ₃]	[(CH ₃) ₃ CBr]	[-0CH ₃]	Rate (M/s)
2. rate = $k_{\text{for}} [(CH_3)_3 CBr]$	0.0001	0.0001	$2.8 \ge 10^{-5}$
3. rate = k_{for} [-OCH ₃]	0.0002	0.0001	5.6 x 10 ⁻⁵
4. Neither of the above	0.0001	0.0002	2.8 x 10 ⁻⁵
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Lecture 35 CH102 A1 (MV	Lecture 35 CH102 A1 (MWF 9:05 am) Spring 2019			Copyright © 2019 Dan Dill dan@bu.edu	
[Quiz] For (Cl what is the va	$(H_3)_3CBr + -OCH_3 \rightarrow (CH_3)_3CO$ alue of k_{for} ?	CH ₃ + Br−			
1. 2	2.8 x 10 ⁻⁵ M s ⁻¹	[(CH ₃) ₃ CBr]	[-0CH ₃]	Rate (M/s)	
2. 2	$2.8 \ge 10^{-1} \text{ s}^{-1}$	0.0001	0.0001	2.8 x 10 ⁻⁵	
3. 2	$2.8 \ge 10^{-1} \text{ M s}^{-1}$	0.0002	0.0001	5.6 x 10 ⁻⁵	
4. N	lone of the above	0.0001	0.0002	$2.8 \ge 10^{-5}$	
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