Lecture 37 CH102 A1	Lecture 37 CH102 A1 (MWF 9 am) Spring 2017			Copyright © 2017 Dan Dill dan@bu.edu		
[TP] For $(CH_3)_3CBr + {}^{-}OCH_3 \rightarrow (CH_3)_3COCH_3 + Br^{-}$ what is the order in ${}^{-}OCH_3$?						
25% 1.	1	[(CH ₃) ₃ CBr]	[-OCH ₃]	Rate (M/s)		
25% <mark>2</mark> .	2	0.0001	0.0001	2.8 x 10 ⁻⁵		
25% <u>3</u> .	Neither of the above	0.0002	0.0001	5.6 x 10 ⁻⁵		
25% 4.	More info needed	0.0001	0.0002	2.8 x 10 ⁻⁵		
BOSTON	Response Counter		5	1		







Lecture 37 CH [TP] Fo what is	r (C the	(MWF 9 am) Spring 2017 H ₃) ₃ CBr + \neg OCH ₃ \rightarrow (CH ₃) ₃ COCI order in (CH ₃) ₃ CBr ?	H ₃ + Br ⁻	Copyright © 2017 [Dan Dill dan@bu.edu
25%	1.	1	[(CH ₃) ₃ CBr]	[-0CH ₃]	Rate (M/s)
25%	2.	2	0.0001	0.0001	2.8 x 10 ⁻⁵
25%	3.	Neither of the above	0.0002	0.0001	5.6 x 10 ⁻⁵
25%	4.	More info needed	0.0001	0.0002	2.8 x 10 ⁻⁵
BOSTON		Response Counter		5	12

Lecture 37 CH102 A1 (MWF 9 am) Spring 2017 [TP] For $(CH_3)_3CBr + {}^{-}OCH_3 \rightarrow (CH_3)_3COCH_3 + Br^{-}$ what is the order in ${}^{-}OCH_3$?						
25%	1.	1	[(CH ₂) ₂ CBr]	[-0CH ₃]	Rate (M/s)	
25%	2.	2	0.0001	0.0001	2.8 x 10 ⁻⁵	
25%	3.	Neither of the above	0.0002	0.0001	5.6 x 10 ⁻⁵	
25%	4.	More info needed	0.0001	0.0002	2.8 x 10 ⁻⁵	
BOSTON		Response Counter		5	13	

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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-		[TP] For $(CH_3)_3CBr + -OCH_3 \rightarrow (CH_3)_3COCH_3 + Br-$ what is the value of k?			
25% 1. rate = $k[(CH_2)_2CBr][-OCH_2]$	[(CH ₃) ₃ CBr] [⁻OCH ₃]	Rate (M/s)	25% 1. 2.8 x 10^{-5} M s ⁻¹ [(CH ₃) ₃ CE	r] [-0CH ₃]	Rate (M/s)	
25% 2. rate = $k[(CH_2)_2CBr]$	0.0001 0.0001	2.8 x 10 ⁻⁵	$25\% 2. 2.8 \ge 10^{-1} \text{ s}^{-1} \qquad \qquad 0.0001$	0.0001	2.8 x 10 ⁻⁵	
25% 3. rate = $k[-0CH_2]$	0.0002 0.0001	5.6 x 10 ⁻⁵	$25\% 3. 2.8 \ge 10^{-1} \text{M s}^{-1} \qquad \qquad 0.0002$	0.0001	5.6 x 10 ⁻⁵	
25% 4. Neither of the above	0.0001 0.0002	2.8 x 10 ⁻⁵	25% 4. None of the above 0.0001	0.0002	2.8 x 10 ⁻⁵	
BOSTON UNIVERSITY Response Counter	5	14	BOSTON CHIVABATTY Response Counter	5	15	





















