BROMINATION OF TOLUENE REPORT FORM

Name	Drawer Number			
Date	Lab Section		Instructor	
Write the complete mechan bromotoluene (ignore <i>m</i> - and formal charges; the role of the arenium ion intermediate.	d o- products). I	nclude me	chanism arrows; non-b	onding electrons;
The color change of the pH respect to the mechanism ab				e to red. With
Quantities used in the reac	ction (show calc	culations (on a separate lab notel	book page) <u>:</u>
Density of toluene ¹		g/mL	Density of bromine ²	g/mL
M.W. of toluene ³		g/mol	M.W. of bromine ⁴	g/mol
Toluene (from mass)		g		mole
Toluene (from volume)		g		mole
Bromine (from volume)		g		mole

Table of Results

Bromotoluene isomer	Peak Area (triangulation) cm ²	Mole % (calc. from triangulation)	Mole % (statistical prediction)	Mole % (fr. equilibrium exp.)
ortho				
meta				
para				
Toluene		Do not include	Do not include	Do not include

Citations for physical properties	(Use citation numbers 1-4, as shown superscripted on the
first page, for citing the densities an	d M.W.'s of toluene and bromine. See the Lab Manual for
instructions regarding correct and a	pproved citations.

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1.	





Attach experimental IR spectrum, calculations, and written report to Report Form.

4.