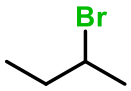
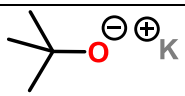
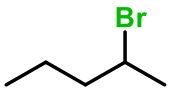
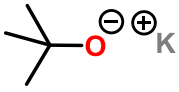
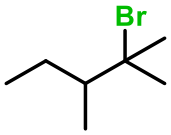
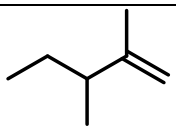
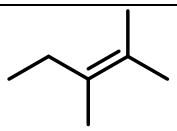
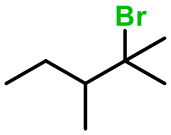
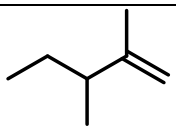
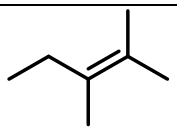
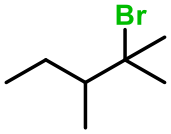
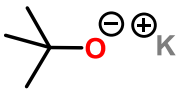
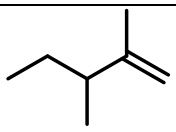
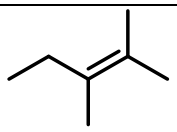
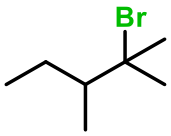
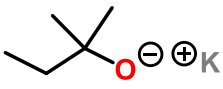
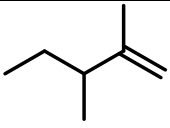
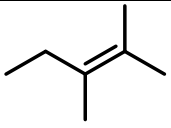
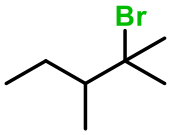
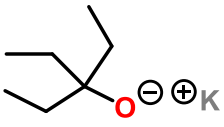
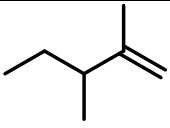
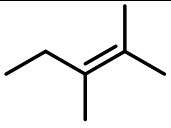
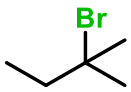
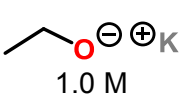
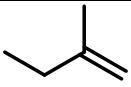
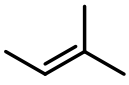
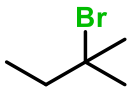
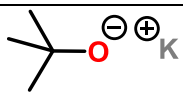
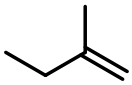
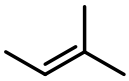
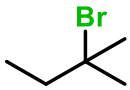
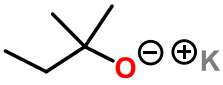
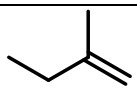
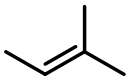
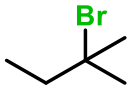
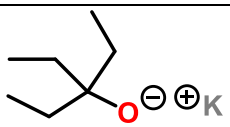
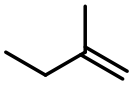
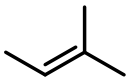
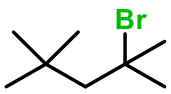
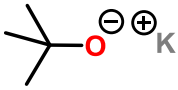
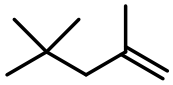
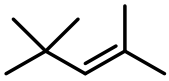
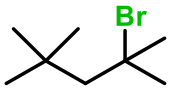
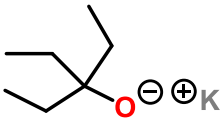
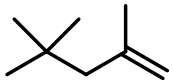
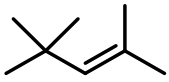
Comparison of Olefin product distribution in elimination reactions[1]

Prepared for Master Organic Chemistry (masterorganicchemistry.com)

Adapted from Table IV of:

Brown, H. C.; Moritani, I.; Okamoto, Y. Steric Effects in Elimination Reactions. VII. The Effect of the Steric Requirements of Alkoxide Bases on the Direction of Bimolecular Elimination. *J. Am. Chem. Soc.* **1956**, *78* (10), 2193–2197. https://doi.org/10.1021/ja01591a047.

Alkyl Bromide	Alkyl Bromide Classification	Base	Base Classification	% Reaction Yield Alkene	% 1-Substituted Alkene	% 2-Substituted Alkene
	2°	 0.96 M	3°	-	 53	 47
	2°	 0.96 M	3°	90.6	 66	 34
	3°	 1.0 M	1°	87	 22.5	 77.5
	3°	 4.0 M	1°	93	 22	 78
	3°	 1.0 M	3°	90	 73	 27
	3°	 1.0 M	3°	94	 81	 19
	3°	 1.0 M	3°	82	 92	 8
	3°	 1.0 M	1°	85	 31	 69

	3°	 1.0 M	3°	96	 72.5	 27.5
	3°	 0.71 M	3°	95	 77.5	 22.5
	3°	 1.2 M	3°	98	 88.5	 11.5
	3°	 1.0 M	3°	80	 97	 3
	3°	 1.0 M	3°	90	 97	 3