

<u>No</u>	<u>Product</u>	<u>Remarks</u>	<u>Quantities</u>	<u>References</u>
	<u>Enamines</u>			
1)	2-Acetylcyclohexanone	2 steps		
		A	1	Monson p. 80-83
		B	1	Monson p. 80-83
17)	Octalone	2 steps		
		A	1	Monson p. 80-83
		B	1/2	Monson p. 80-83
22)	2-(p-Toluy)-cyclohexanone	2 steps		
		A	2/3	JACS, <u>85</u> , 216 (1963)
		B	2/3	JACS, <u>84</u> , 2619 (1962)
	<u>Bromination with N.B.S.</u>			
3)	2-Aminophenylacetic acid (Phenylglycine)		1/2	J. Chem. Edu., <u>60</u> , 676 (1983)
5)	1-Bromoethyl benzene (1-Phenylethyl bromide)		1	Monson p. 48
6)	1,3-Cyclohexadiene	3 Steps		
		A	2	Monson p. 48
		B	1/10	JACS, <u>81</u> , 448 (1959)
		C	1	JACS, <u>83</u> , 2554 (1961)
	<u>Carbenes, Phase transfer</u>			
7)	7,7-Dibromonorcarene		1	Monson p. 116
11)	exo-3,4-Dichlorobicyclo[3.2.1]- Octene		1/10	Synthesis, 485 (1972)
18)	α -Phenylbutyronitrile	with P.T.C.	1/10	Org. Synt., <u>55</u> , 91
		without P.T.C.	1/20	Org. Synt., <u>55</u> , 91
	<u>Reformatsky</u>			
9)	β,β -Diphenylethylacrylate		2.5	Can. J. Chem., <u>46</u> , 1843 (1968)
10)	Ethyl 3-phenyl-3-hydropropionate		2/3	Vogel IV ed. P. 535

<u>No</u>	<u>Product</u>	<u>Remarks</u>	<u>Quantities</u>	<u>References</u>
<u>Wittig Reaction</u>				
8)	1,4-Diphenylbutadiene		1	Monson p. 104
20)	trans-Stilbene	2 steps		
		A	1	Durst p. 545
		B	1	Durst p. 547
<u>Hydroborations</u>				
13)	Isopinocampheol	procedure data	2/3	Org. Reactions, <u>13</u> , 27 (1963) JACS, <u>83</u> , 2544 (1961)
14)	Cis-Myrtanol	procedure data	1/2	Org. Reactions, <u>13</u> , 27 (1963) JACS, <u>83</u> , 2544 (1961)
<u>Birch</u>				
4)	2,5-Dihydroanisole	Reduction	2/3	JACS, <u>75</u> , 5360 (1953)
<u>Condensations</u>				
16)	3,4-Methylenedioxycinnamionitrile		1	Durst p. 436
2)	Adamantane		1/5	Org. Synt., V. 16
19)	Quinaldine		1	J. Org. Chem., <u>42</u> , No. 5 911 (1977)
<u>Synthesis of:</u>				
21)	2-(o-Toluidine)-benzoic acid	Photographed procedure	1/5	Org. Synt., <u>2</u> , 15 (1961)
15)	1-Methylcyclohexane-carboxylic acid	Step A	1/2	JOC, <u>32</u> , 1095 (1967)
		Step B	1/2	Org. Synt., V. 739
12)	Ferrocene and Acylation of:	2 Steps		
		A	1/2	Inorganic Synt., <u>11</u> , 120
		B	2	Durst p. 463
23)	(4RS,4aRS,6RS,8aRS)-4-Methoxycarbonyl-1,1,6-trimethyl-1,4,4a,5,6,7,8,8a-octahydro-2,3-benzopyrone [rac-5]	3 Steps		Org. Synt., <u>69</u> , 31 (1990)
		1 EDDA	1/10	
		A	1/4	
		B	1/4	
24)	γ -Nonanoic lactone	2 Steps	1	J. Chem. Edu., <u>67</u> , 69 (1990)

<u>No</u>	<u>Product</u>	<u>Remarks</u>	<u>Quantities</u>	<u>References</u>
	<u>Hydrogenation at atmospheric pressure</u>			
25)	Selective hydrogenation (atmospheric pressure) and isomerization of Ergosterol		1/100	JOC, <u>18</u> , 276 (1953)
	<u>Enzymatic reactions</u>			
26)	(S)-(+)-3-Hydroxy-2,2-diethylcyclohexanone	2 Steps		Org. Synt., <u>68</u> , 56 (1989)
		A	1/10	
		B	1/5	
	<u>Microscale laboratory</u>			
27)	Distillation with Hickman still head	Benzoic acid + Ethylacetate	1	Microscale organic laboratory, D. Mayo, 59 (1989)
28)	Photochemical isomerization of trans-1,2-dibenzoyl ethylene	2 Steps	1	Microscale organic laboratory, (1989)
		A (crystallization)		p.105
		B		p.110-115
29)	2,4,6-Trinitrotoluene (stepwise nitration of Toluene)	3 Steps	1	J. Chem. Edu., <u>68</u> , (1990)
30)	Cholesteryl acetate (micro acetylation of Cholesterol and the influence of Dimethylamino pyridine as a catalyst)		1	Photographed procedure