

OTS DRY SOLVENT TABLE	Initial	3 Å MS 24 {72}h 5 (10) [20]% m/v	4Å MS 24 [72] h 5-10% m/v	SiO ₂ (28-200) 22 Å, col	act. neutr Al ₂ O ₃	CaH ₂ 24h	KOH 10% 24h	P ₂ O ₅	Refs	Notes
Benzene	100		0.03	0.3	0.01	0.2 d			2	15 frac dist
Toluene	225	(1)	0.01	2					1,4	31 Na / benzo
DCM	22	(0,1)	0.07	1		13 d			1,4	
EtOAc	2500		128						4	
THF	108	(28) [15] 6 seq	28 seq ex 1000	56	6				1	43 Na / benzo
Dioxane	2300	19	40 [30]	1300	1700	30 nd	150 nd		2, 3	
Acetone	2750	150 c! iot	331 c! iot	887 c!				c!	3	Base ^H ₂ O; +B ₂ O ₃ : 107
MeCN	2800	50; seq 0.5	[450]	1300	1600 (6 pd)	1900 nd	2200 n/d, c	9 nd	2,1	Base degrad (K ₂ CO ₃)
DMF	2860	167 {98; 1.5 seq}	134		1970	227nd, 94d	1100 p	105nd, 2d	3	
DMSO	2560	448 {269; seq+}	470 [10 seq]		1900	1800 d	2130 n/d, c	1.4 c	3	260 frac dist
MeOH	1100	95 b, 10 seq3; 950p!	440			125 nd	pd? 33 d ¹		3,1	Mg / I ₂ : 97, pd54, (12+)
EtOH	1500	18 p, 262 b [120]; 8 wk	400			99 nd	26 d; - nd ³		1>3	Mg / I ₂ : 50
tBuOH	1030	428; 160 wk	406			20 d; 406 nd				
Glycol	2700	1900; 360p	1900						3	1080 dist; 65 benz azeo
py	2500	117	106 (0.3 seq)	900	1300	39 nd	156 p		3	
2pyMe	2500	55				84 nd	176 p		3	40 benz azeo
2,6pyMe ₂	2500	200	250 (128 seq)			250 nd	325 p		3	
2,4,6pyMe ₃	2500	47				130 nd	27 p		3	
NEt ₃	2500	33	33	451	223	68	37 p		3	
iPr ₂ NH	2500	<25	<25			150	750 p		3	
1,3-diamprop	2500	<25	<25			500	1370 p!		3	
Et ₂ O	1.47wt% H ₂ O if saturated; @ 15min, Na ₂ SO ₄ 1.2%, 4Å b 0.5%, K ₂ CO ₃ 0.4%, MgSO ₄ 0.3%, CaCl ₂ 0.2%, 4Å p 900ppm. Then seq 4Å: 2ppm by 96h.									

Abbreviations

d	distilled
nd	not distilled
c	contaminates even distillate
n/d	distilled or not
p	powder
b	beads
pl	pellet
seq	sequentially dried
+	see ref for better tech
wk	one week drying time
iot	increases over time
ex	from a different init conc

Refs

- Bradley JOC, 2010, 75 (24), pp 8351–8354
- Burfield et al., JOC 1977, 42, 3060.
- Burfield: JOC 1981, 46, 629; JOC 1978, 43, 3966; JOC 1984, 49, 3852; JOC 1983, 48, 2420 ; J. Chem. Educ. 1982, 59, 703.
- Burfield et al., Journal of Applied Chemistry and Biotechnology 1978, 28, 23.