Supplementary Material

Several Convenient Methods for the Synthesis of 2-Amido Substituted Furans

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Supporting Information Available: ^1H and ^{13}C -NMR spectra for new compounds lacking elemental analyses. This material is available free of charge via the Internet at <http://pubs.acs.org>.

COMPOUND CHARACTERIZATION CHECKLIST

Corresponding Author: Albert Padwa
Manuscript Number: JO

1. In left column, list the compounds whose preparation/isolation/characterization is described and the structures for which computational results are reported.
2. For each listed compound or structure, place an X or other mark in the columns corresponding to the data being reported. (NOTE: For synthesized compounds, authors are not expected to mark all or most of the columns, only those for types of data used to establish compound identity and purity.)
3. Types of compound characterization data other than those already listed on the form may be inserted in the unused column headings.

Compound or structure number (with substituent/ isomer identifier if needed)	IDENTITY										PURITY*	COMPUTATIONAL DATA in SI**												
	Known compound [citation given]																							
9	✓	✓	✓	✓	✓					✓														
12	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16		✓	✓	✓	✓				✓	✓														
17		✓	✓	✓	✓				✓	✓														
18		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* See purity reporting requirement in Guidelines for Authors

** Supporting Information

Rev. 15 Jul 01

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Compound or structure number (with substituent/ isomer identifier if needed)	IDENTITY										PURITY*				COMPUTATIONAL DATA in SI**			
	Known compound [citation given]	IR	UV-Vis	¹ H-NMR	¹³ C-NMR	Other NMR data	MS	High resolution MS	X-ray [ORTEP/ data in SI**]	Elemental analysis	Copy of ¹ H or ¹³ C-NMR in SI**	GC, HPLC, or electrophoresis	mp or bp range	Optical rotation	ee [NMR or chromatography]	Cartesian coordinates or Z-matrix	Total energy	# of imaginary frequencies
32	✓	✓	✓	✓	✓				✓									
33		✓	✓	✓	✓				✓									
34		✓	✓	✓	✓				✓	✓								
38		✓		✓	✓					✓								
39	✓		✓	✓														
40		✓		✓	✓					✓								
41		✓		✓	✓					✓								
42		✓		✓	✓		✓											
46	✓	.		✓														
47	✓			✓														
48	✓			✓														
49	✓			✓	✓					✓								
50	✓			✓	✓		✓											
51				✓	✓													
52	✓	✓		✓	✓					✓								
53		✓		✓	✓					✓								

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IDENTITY		PURITY		COMPUTATIONAL DATA in SI**	
Compound or structure number (with substituent/ isomer identifier if needed)	Known compound [citation given]				
	IR				
	UV-Vis				
	¹ H-NMR				
	¹³ C-NMR				
	Other NMR data				
	MS				
	High resolution MS				
	X-ray [ORTEP] data in SI**				
	Elemental analysis				
	Copy of ¹ H or ¹³ C-NMR in SI**				
	GC, HPLC, or electrophoresis				
	mp or bp range				
	Optical rotation				
	ee [NMR or chromatography]				
	Cartesian coordinates or Z-matrix				
	Total energy				
	# of imaginary frequencies				

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6	77.319	3.5
7	77.000	3.7
8	76.681	3.7
9	36.256	4.6
10	27.464	4.8
11	22.260	4.8
12	13.711	4.8

3	139.055	2.8
4	111.501	3.1
5	94.971	2.7
6	77.319	7.3
7	77.000	7.4
8	76.681	7.3
9	43.220	2.8
10	27.267	3.2
11	17.292	3.3
12	11.807	3.3

220
200
180
160
140
120
100
80
60
40
20
0
ppm