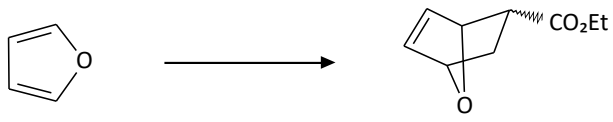


A: 86.0%

Reaction

Apparatus:
Four-necked bottom flask containing a thermometer, a mechnical stirrer and a nitrogen inlet.

Symbol image

A solution of

20.0 g **Furane** (1.00 equiv; 294 mmol)

47.1 g **Ethyl acrylate** (1.60 equiv; 470 mmol)

Ethyl acrylate safety sheet.pdf

was cooled to 3°C. Then

172 g **Zinc bromide** (1.30 equiv; 382 mmol; 50%)

- was added during 30 min, keeping the temperature at 25°C max.
- heated solution to 50°C during 30 min.
- kept at 50°C during 4.5 h

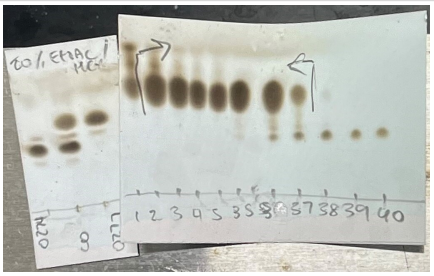
In-process GC after 5min

In-process GC after 1 h

In-process GC after 4.5 h

14.0 mL **Tetrahydrofurane** (0.7 volEquiv)

- added during **10 min**, keeping temp at 40°C.
- cooled solution to 25°C during 5 min.



Sample TLC image

Solvents: Toluene/EtOAc (1:1)
Detection: Sulfuric acid spray

Workup

	The solution was washed with a mixture of
66.6 mL	**Crushed ice** (3.33 volEquiv)
100 mL	**Water** (5.00 volEquiv)
	The organic phase was dried over
3.33 g	**Sodium sulfate anhydrous** (0.167 wtEquiv)
	• filtered at 0°C • evaporated at 40°C / 15 mbar during 1 h • dried at 40°C / 2 mbar for 1.5 h
✓	**A: 42.5 g Product (86.0% yield)** [MW: 168.19 ; EM: 168.08 ; $C_9H_{12}O_3$]
	Analytics Summary.xlsx