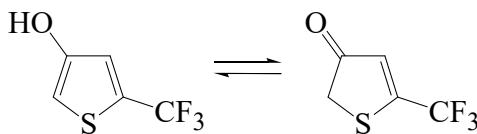




>>Entry Name: 4-Hydroxy-2-(trifluoromethyl)thiophene

Synonym(s): 5-(Trifluoromethyl)thiophene-3-ol, 9CI. 5-(Trifluoromethyl)-3(2*H*)-thiophenone



CAS Registry Number: 217959-45-0

Molecular Formula: C₅H₃F₃OS

Molecular Weight: 168.139

Accurate Mass: 167.985669

Percentage Composition: C 35.72%; H 1.80%; F 33.90%; O 9.52%; S 19.07%

Use/Importance: Intermed. in synth of thienyloxypyridylcarboxamide herbicides. Bioisostere of 3-(Trifluoromethyl)phenol [LZP47-X](#)

Physical Description: Oil

Boiling Point: Bp₄ 65-66°

References:

U.S. Pat., 1999, 5 869 426; *CA*, **130**, 164338v, (*synth*)

Karp, G.M. *et al.*, *Synthesis*, 2000, 1078-1080, (*synth, ir, pmr, cmr*)