



>>Entry Name: 2-Hydroxy-5-(trifluoromethyl)benzoic acid

Synonym(s): α,α,α -Trifluoro-2,5-cresotic acid. 5-(Trifluoromethyl)salicylic acid

CAS Registry Number: 79427-88-6

Molecular Formula: $C_8H_5F_3O_3$

Molecular Weight: 206.121

Accurate Mass: 206.019079

Percentage Composition: C 46.62%; H 2.44%; F 27.65%; O 23.29%

Melting Point: Mp 138-140°

>>Derivative: Me ether, Me ester

CAS Registry Number: 177174-47-9

Molecular Formula: $C_{10}H_9F_3O_3$

Molecular Weight: 234.174

Accurate Mass: 234.050379

Percentage Composition: C 51.29%; H 3.87%; F 24.34%; O 20.50%

Physical Description: Oil

>>Derivative: Nitrile

Synonym(s): 2-Cyano-4-(trifluoromethyl)phenol

CAS Registry Number: 142167-36-0

Molecular Formula: $C_8H_4F_3NO$

Molecular Weight: 187.121

Accurate Mass: 187.024498

Percentage Composition: C 51.35%; H 2.15%; F 30.46%; N 7.49%; O 8.55%

Melting Point: Mp 149.5-151°

References:

Yamamoto, S. *et al.*, *Chem. Pharm. Bull.*, 1996, **44**, 734, (*synth, pmr*)

Marzi, E. *et al.*, *Eur. J. Org. Chem.*, 2001, 2911-2915, (*synth, pmr, cmr, ms*)