



>>Entry Name: 3-Nitro-5-(trifluoromethyl)aniline

Synonym(s): 3-Nitro-5-(trifluoromethyl)benzenamine, 9Cl. 5-Nitro- α,α,α -trifluoro-*m*-toluidine. 3-Amino-5-nitrobenzotrifluoride

CAS Registry Number: 401-94-5

Molecular Formula: C₇H₅F₃N₂O₂

Molecular Weight: 206.124

Accurate Mass: 206.030312

Percentage Composition: C 40.79%; H 2.44%; F 27.65%; N 13.59%; O 15.52%

Physical Description: Yellow cryst. or flakes (CCl₄)

Melting Point: Mp 80-81.5°

>>Derivative: *N*-Ac

Molecular Formula: C₉H₇F₃N₂O₃

Molecular Weight: 248.161

Accurate Mass: 248.040877

Percentage Composition: C 43.56%; H 2.84%; F 22.97%; N 11.29%; O 19.34%

Physical Description: Needles (CCl₄)

Melting Point: Mp 134-135°

References:

Finger, G.C. *et al.*, *J.A.C.S.*, 1944, **66**, 1972, (*synth*)

Benkeser, R.A. *et al.*, *J.A.C.S.*, 1952, **74**, 3011, (*synth*)

Belcher, R. *et al.*, *J.C.S.*, 1954, 3846, (*synth*)

Stacy, G.W. *et al.*, *J.O.C.*, 1959, **24**, 1892, (*synth*)