>>**Entry Name: 3,4,5-Trichloro-2-pyridinecarboxylic acid,** 9Cl
Synonym(s): 3,4,5-Trichloropicolinic acid, 8Cl

CAS Registry Number: 5439-04-3

Molecular Formula: $C_6H_2Cl_3NO_2$
Molecular Weight: 226.445
Accurate Mass: 224.91511
Percentage Composition: C 31.82%; H 0.89%; Cl 46.97%; N 6.19%; O 14.13%
Physical Description: Needles (H_2O)
Melting Point: Mp 164-165° (155°)

>>**Derivative:** Me ester

Molecular Formula: $C_7H_4Cl_3NO_2$
Molecular Weight: 240.472
Accurate Mass: 238.93076
Percentage Composition: C 34.96%; H 1.68%; Cl 44.23%; N 5.82%; O 13.31%
Physical Description: Plates (MeOH or H_2O)
Melting Point: Mp 84-85°

>>**Derivative:** Et ester

Molecular Formula: $C_8H_6Cl_3NO_2$
Molecular Weight: 254.499
Accurate Mass: 252.94641
Percentage Composition: C 37.76%; H 2.38%; Cl 41.79%; N 5.50%; O 12.57%
Melting Point: Mp 34-35°

>>**Derivative:** Ph ester

Molecular Formula: $C_{12}H_6Cl_3NO_2$
Molecular Weight: 302.543
Accurate Mass: 300.94641
Percentage Composition: C 47.64%; H 2.00%; Cl 35.15%; N 4.63%; O 10.58%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 93-94°

>>**Derivative:** Chloride

Molecular Formula: C_6HCl_4NO
Molecular Weight: 244.891
Accurate Mass: 242.881222
Percentage Composition: C 29.43%; H 0.41%; Cl 57.91%; N 5.72%; O 6.53%
Melting Point: Mp 24-25°
Boiling Point: Bp_{12} 135-136°

References:

Sell, W.J. *et al.*, *J.C.S.*, 1905, **87**, 799-804, *(synth, Me ester)*
Graf, R. *et al.*, *J. Prakt. Chem.*, 1937, **148**, 13-23, *(synth, esters, chloride)*