>>**Entry Name: 3-Chlorophenylacetic acid,** 8Cl
Synonym(s): 3-Chlorobenzeneacetic acid, 9Cl. *m*-Chloro-α-toluic acid

CAS Registry Number: 1878-65-5
Structure by analogy with 2-Chlorophenylacetic acid, DWZ58-U

Molecular Formula: $C_8H_7ClO_2$
Molecular Weight: 170.595
Accurate Mass: 170.013457
Percentage Composition: C 56.33%; H 4.14%; Cl 20.78%; O 18.76%
Physical Description: Cryst. (H_2O or EtOH)
Melting Point: Mp 77° (74.5°)
pKa Value: pK_{a1} 4.11 (25°)

Aldrich: C6335-9
Fluka: 25930

>>**Derivative:** Me ester

CAS Registry Number: 53088-68-9
Molecular Formula: $C_9H_9ClO_2$
Molecular Weight: 184.622
Accurate Mass: 184.029107
Percentage Composition: C 58.55%; H 4.91%; Cl 19.20%; O 17.33%
Boiling Point: Bp_9 120-121°
Refractive Index: n_D^{20} 1.5238

>>**Derivative:** Et ester

CAS Registry Number: 14062-29-4
Molecular Formula: $C_{10}H_{11}ClO_2$
Molecular Weight: 198.648
Accurate Mass: 198.044757
Percentage Composition: C 60.46%; H 5.58%; Cl 17.85%; O 16.11%
Boiling Point: Bp_{26} 146-148°
Refractive Index: $n_D^{24.2}$ 1.5100

>>**Derivative:** Chloride

CAS Registry Number: 41904-39-6
Molecular Formula: $C_8H_6Cl_2O$
Molecular Weight: 189.04
Accurate Mass: 187.979569
Percentage Composition: C 50.83%; H 3.20%; Cl 37.51%; O 8.46%
Physical Description: Burgundy liq.

>>**Derivative:** Nitrile
Synonym(s): 3-Chlorobenzeneacetonitrile, 9Cl. *m*-Chlorobenzyl cyanide

CAS Registry Number: 1529-41-5
Molecular Formula: C_8H_6ClN
Molecular Weight: 151.595
Accurate Mass: 151.018876
Percentage Composition: C 63.38%; H 3.99%; Cl 23.39%; N 9.24%
Boiling Point: Bp_{10} 135°
Hazard & Toxicity: LD_{50} (mus, ipr) 38 mg/kg

Aldrich: C2780-8
Fluka: 23860

References:

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Kenner, J. *et al.*, *J.C.S.*, 1934, 679, *(synth)*
Campbell, N. *et al.*, *J.C.S.*, 1948, 1251, *(synth)*
Heathcock, C.H. *et al.*, *J.O.C.*, 1990, **55**, 798, *(chloride, synth, pmr, cmr)*