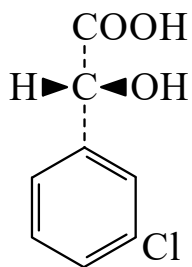




>>Entry Name: 2-(3-Chlorophenyl)-2-hydroxyacetic acid

Synonym(s): 3-Chloro- α -hydroxybenzeneacetic acid, 9Cl. *m*-Chloromandelic acid, 8Cl



(R)-form

CAS Registry Number: 16273-37-3

Molecular Formula: C₈H₇ClO₃

Molecular Weight: 186.594

Accurate Mass: 186.008372

Percentage Composition: C 51.50%; H 3.78%; Cl 19.00%; O 25.72%

>>Variant: (R)-form

CAS Registry Number: 61008-98-8

Molecular Formula: C₈H₇ClO₃

Molecular Weight: 186.594

Accurate Mass: 186.008372

Percentage Composition: C 51.50%; H 3.78%; Cl 19.00%; O 25.72%

Physical Description: Cryst.

Melting Point: Mp 103-105°

Optical Rotation: $[\alpha]_D^{25} -113$ (c, 4 in EtOH)

Aldrich: 44544-4

>>Variant: (S)-form

CAS Registry Number: 32222-43-8

Molecular Formula: C₈H₇ClO₃

Molecular Weight: 186.594

Accurate Mass: 186.008372

Percentage Composition: C 51.50%; H 3.78%; Cl 19.00%; O 25.72%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 107°

Optical Rotation: $[\alpha]_D^{25} +122$ (c, 0.9 in Me₂CO)

>>Variant: (±)-form

CAS Registry Number: 52950-16-0

Molecular Formula: C₈H₇ClO₃

Molecular Weight: 186.594

Accurate Mass: 186.008372

Percentage Composition: C 51.50%; H 3.78%; Cl 19.00%; O 25.72%

Physical Description: Cryst. (C₆H₆ or CHCl₃)

Melting Point: Mp 106.5-107°. Mp 115-115.5°

>>Derivative: Me ester

CAS Registry Number: 13305-18-5

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 84°

>>Derivative: Me ether

Synonym(s): (3-Chlorophenyl)methoxyacetic acid. α -Methoxy-3-chlorophenylacetic acid

CAS Registry Number: 21660-66-2

Molecular Formula: C₉H₉ClO₃

Molecular Weight: 200.621

Accurate Mass: 200.024022

Percentage Composition: C 53.88%; H 4.52%; Cl 17.67%; O 23.92%

Use/Importance: Used as a soln. in EtOH for gravimetric detn. of Na

Physical Description: Oil

References: