



>>>Derivative: Dichloride

Synonym(s): 2-(Chlorosulfonyl)benzoyl chloride

CAS Registry Number: 34684-21-4

Molecular Formula: $C_7H_4Cl_2O_3S$

Molecular Weight: 239.078

Accurate Mass: 237.925819

Percentage Composition: C 35.17%; H 1.69%; Cl 29.66%; O 20.08%; S 13.41%

Physical Description: Cryst. (petrol or Et_2O)

Melting Point: Mp 40°

Boiling Point: Bp₂ 187-188°

Other Data: Labile, rearranges into a cyclic isomer, Mp. 79°

>>>Derivative: C-Amide

Synonym(s): 2-(Aminocarbonyl)benzenesulfonic acid, 9Cl. 2-Carbamoylbenzenesulfonic acid

Molecular Formula: $C_7H_7NO_4S$

Molecular Weight: 201.203

Accurate Mass: 201.009579

Percentage Composition: C 41.79%; H 3.51%; N 6.96%; O 31.81%; S 15.94%

Physical Description: Cryst. + $1H_2O$

Melting Point: Mp 193-194° (anhyd.)

>>>Derivative: S-Amide

Synonym(s): 2-(Aminosulfonyl)benzoic acid, 9Cl

CAS Registry Number: 632-24-6

Molecular Formula: $C_7H_7NO_4S$

Molecular Weight: 201.203

Accurate Mass: 201.009579

Percentage Composition: C 41.79%; H 3.51%; N 6.96%; O 31.81%; S 15.94%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 165-167° (rapid heat). Mp 153-155° (slow heat)

>>>Derivative: Nitrile

Synonym(s): 2-Cyanobenzenesulfonic acid, 9Cl

Molecular Formula: $C_7H_5NO_3S$

Molecular Weight: 183.187

Accurate Mass: 182.999014

Percentage Composition: C 45.90%; H 2.75%; N 7.65%; O 26.20%; S 17.50%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 279-279.5°

>>>Derivative: Anhydride

Synonym(s): 3*H*-2,1-Benzoxathiol-3-one 1,2-dioxide, 9Cl

CAS Registry Number: 81-08-3

Molecular Formula: $C_7H_4O_4S$

Molecular Weight: 184.172

Accurate Mass: 183.98303

Percentage Composition: C 45.65%; H 2.19%; O 34.75%; S 17.41%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 129.5°

Boiling Point: Bp₁₈ 184-186°

Aldrich: 19169-8

Fluka: 86130

>>>Derivative: Imide

References: