>>**Entry Name: 4-Thiazolecarboxylic acid,** 9CI, 8CI

CAS Registry Number: 3973-08-8

Molecular Formula: $C_4H_3NO_2S$
Molecular Weight: 129.139
Accurate Mass: 128.988449
Percentage Composition: C 37.20%; H 2.34%; N 10.85%; O 24.78%; S 24.83%
Use/Importance: Intermed. for synth of 2-(4-Thiazolyl)-1*H*-benzimidazole BMK95-S
Physical Description: Cryst. (pentanol)
Melting Point: Mp 196-197°

>>**Derivative:** Me ester

CAS Registry Number: 59418-09-6
Molecular Formula: $C_5H_5NO_2S$
Molecular Weight: 143.166
Accurate Mass: 143.004099
Percentage Composition: C 41.95%; H 3.52%; N 9.78%; O 22.35%; S 22.40%
Physical Description: Plates
Melting Point: Mp 72-75°

>>**Derivative:** Et ester

CAS Registry Number: 14527-43-6
Molecular Formula: $C_6H_7NO_2S$
Molecular Weight: 157.193
Accurate Mass: 157.019749
Percentage Composition: C 45.85%; H 4.49%; N 8.91%; O 20.36%; S 20.40%
Physical Description: Oil
Boiling Point: Bp_{12} 130-131°

>>**Derivative:** Chloride

CAS Registry Number: 3745-79-7
Molecular Formula: C_4H_2ClNOS
Molecular Weight: 147.585
Accurate Mass: 146.954561
Percentage Composition: C 32.55%; H 1.37%; Cl 24.02%; N 9.49%; O 10.84%; S 21.73%
Physical Description: Needles (petrol)
Melting Point: Mp 85°
Other Data: Dec. on standing

>>**Derivative:** Amide

CAS Registry Number: 3575-09-5
Molecular Formula: $C_4H_4N_2OS$
Molecular Weight: 128.154
Accurate Mass: 128.004433
Percentage Composition: C 37.49%; H 3.15%; N 21.86%; O 12.48%; S 25.02%
Physical Description: Cryst. (H_2O)
Melting Point: Mp 150°

>>**Derivative:** Nitrile
Synonym(s): 4-Cyanothiazole

CAS Registry Number: 1452-15-9
Molecular Formula: $C_4H_2N_2S$
Molecular Weight: 110.139
Accurate Mass: 109.993868
Percentage Composition: C 43.62%; H 1.83%; N 25.43%; S 29.11%
Physical Description: Needles
Melting Point: Mp 57-59°

References: