



>>Entry Name: 6-Quinolinecarboxylic acid, 9Cl, 8Cl

CAS Registry Number: 10349-57-2

Molecular Formula: $C_{10}H_7NO_2$

Molecular Weight: 173.171

Accurate Mass: 173.047679

Percentage Composition: C 69.36%; H 4.07%; N 8.09%; O 18.48%

Physical Description: Prisms, plates or needles

Melting Point: Mp 291-292°

Solubility: Sol. warm EtOH; spar. sol. H_2O

pKa Value: pK_{a1} 0.1; pK_{a2} 4.82 (25°)

Other Data: Sublimes

>>Derivative: Me ester

CAS Registry Number: 38896-30-9

Molecular Formula: $C_{11}H_9NO_2$

Molecular Weight: 187.198

Accurate Mass: 187.063329

Percentage Composition: C 70.58%; H 4.85%; N 7.48%; O 17.09%

Melting Point: Mp 90°

>>Derivative: Et ester

CAS Registry Number: 73987-38-9

Molecular Formula: $C_{12}H_{11}NO_2$

Molecular Weight: 201.224

Accurate Mass: 201.078979

Percentage Composition: C 71.63%; H 5.51%; N 6.96%; O 15.90%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 56°

Boiling Point: Bp₃ 155°

>>Derivative: Amide

Molecular Formula: $C_{10}H_8N_2O$

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

Physical Description: Yellow plates (C_6H_6 /EtOH)

Melting Point: Mp 174°

>>Derivative: Nitrile

Synonym(s): 6-Cyanoquinoline

CAS Registry Number: 23395-72-4

Molecular Formula: $C_{10}H_6N_2$

Molecular Weight: 154.171

Accurate Mass: 154.053098

Percentage Composition: C 77.91%; H 3.92%; N 18.17%

Physical Description: Cryst. (C_6H_6 /petrol)

Melting Point: Mp 135°

Solubility: Sol. dil. HCl with red. col.

References:

Hirsch, J.A. *et al.*, *J.O.C.*, 1974, **39**, 2044, (*synth*)