



>> **Name:** 9,10-Anthracenedicarboxylic acid, 9CI

CAS Registry Number: 73016-08-7

Structure by analogy with 1,2-Anthracenedicarboxylic acid, [KCS89-K](#)

Molecular Formula: C₁₆H₁₀O₄

Molecular Weight: 266.253

Accurate Mass: 266.05791

Percentage Composition: C 72.18%; H 3.79%; O 24.04%

Physical Description: Gold cryst. by subl.

Melting Point: Mp *ca.* 341-342 dec.°

Other Data: Polym. to give a polyanhydride

Rare Chemicals Library: S30385-2

>> **Derivative:** Di-Me ester

CAS Registry Number: 73016-10-1

Molecular Formula: C₁₈H₁₄O₄

Molecular Weight: 294.306

Accurate Mass: 294.08921

Percentage Composition: C 73.46%; H 4.79%; O 21.75%

Physical Description: Yellow cryst. (MeOH)

Melting Point: Mp 180-181°

>> **Derivative:** Dinitrile

CAS Registry Number: 1217-45-4

Molecular Formula: C₁₆H₈N₂

Molecular Weight: 228.253

Accurate Mass: 228.068748

Percentage Composition: C 84.19%; H 3.53%; N 12.27%

Physical Description: Egg-yellow prisms

Melting Point: Mp 328-330°

Solubility: Spar. sol. org. solvs.

Other Data: Strong violet fluorescence in soln. Stable to hydrol.

Aldrich: 45985-2

Fluka: 10607

Sigma: A9581

References:

Beyer, H. *et al.*, *Ber.*, 1941, **74**, 494-499, (*synth*)

Blomquist, A.T. *et al.*, *J.A.C.S.*, 1957, **79**, 2021-2022, (*synth*)

Hinterhofer, O. *et al.*, *Makromol. Chem.*, 1980, **181**, 83-88, (*polym*)

Duerr, B.F. *et al.*, *J.O.C.*, 1988, **53**, 2120-2122, (*Me ester, synth, pmr*)