



>> **Name:** 2,3-Anthracenedicarboxylic acid, 9CI

CAS Registry Number: 10210-28-3

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: Green-gold cryst. (EtOH)

Melting Point: Mp 355-357°

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

CAS Registry Number: 56306-53-7

Molecular Formula: C₁₈H₁₄O₄

Molecular Weight: 294.306

Accurate Mass: 294.08921

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

Physical Description: Cryst. (MeOAc or by subl.)

Melting Point: Mp 151°

>> **Derivative:** Anhydride

Synonym(s): Anthra[2,3-*c*]furan-1,3-dione

CAS Registry Number: 6812-14-2

Molecular Formula: C₁₆H₈O₃

Molecular Weight: 248.237

Accurate Mass: 248.047345

Percentage Composition: C 77.42%; H 3.25%; O 19.34%

Physical Description: Cryst. (MeCN or by subl.)

Melting Point: Mp 295-296°

Other Data: Also said to subl. without melting

>> **Derivative:** Imide

Synonym(s): 1*H*-Naphth[2,3-*f*]isoindole-1,3(2*H*)-dione, 9CI. 2,3-Anthracenedicarboximide

CAS Registry Number: 6705-69-7

Molecular Formula: C₁₆H₉NO₂

Molecular Weight: 247.253

Accurate Mass: 247.063329

Percentage Composition: C 77.72%; H 3.67%; N 5.66%; O 12.94%

Physical Description: Cryst. (DMF)

Melting Point: Mp 360°

References:

Moriconi, E.J. *et al.*, *Arch. Biochem. Biophys.*, 1959, **83**, 283

Loudon, J.D. *et al.*, *J.C.S.*, 1962, 3262

Hallman, J.L. *et al.*, *J.O.C.*, 1991, **56**, 6243, (*synth, ir, pmr*)

Vorotnikov, A.M. *et al.*, *Zh. Obshch. Khim.*, 1991, **61**, 1241; *J. Gen. Chem. USSR (Engl. Transl.)*, 1991, **61**, 1128, (*imide*)