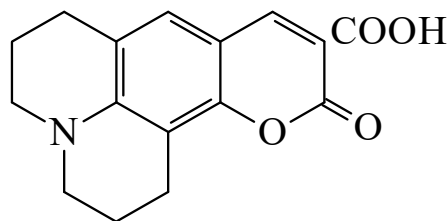




>>Entry Name: 2,3,6,7-Tetrahydro-11-oxo-1*H*,5*H*,11*H*-[1]benzopyrano[6,7,8-*ij*]quinolizine-10-carboxylic acid

Synonym(s): Coumarin 343



CAS Registry Number: 55804-65-4

Molecular Formula: C₁₆H₁₅NO₄

Molecular Weight: 285.299

Accurate Mass: 285.100109

Percentage Composition: C 67.36%; H 5.30%; N 4.91%; O 22.43%

Use/Importance: Laser dye showing high fluorescence quantum yield

Physical Description: Orange needles (MeCN/DMSO)

Melting Point: Mp 253 dec.°

Aldrich: 39302-9

Rare Chemicals Library: S29642-2

>>Derivative: Me ester

CAS Registry Number: 107408-81-1

Molecular Formula: C₁₇H₁₇NO₄

Molecular Weight: 299.326

Accurate Mass: 299.115759

Percentage Composition: C 68.22%; H 5.72%; N 4.68%; O 21.38%

Physical Description: Yellow cryst.

Melting Point: Mp 230-232°

Rare Chemicals Library: S29192-7

>>Derivative: Chloride

CAS Registry Number: 107408-82-2

Molecular Formula: C₁₆H₁₄ClNO₃

Molecular Weight: 303.744

Accurate Mass: 303.066221

Percentage Composition: C 63.27%; H 4.65%; Cl 11.67%; N 4.61%; O 15.80%

Physical Description: Red needles

Melting Point: Mp 209-211 dec.°

>>Derivative: Nitrile

CAS Registry Number: 55804-68-7

Molecular Formula: C₁₆H₁₄N₂O₂

Molecular Weight: 266.299

Accurate Mass: 266.105528

Percentage Composition: C 72.17%; H 5.30%; N 10.52%; O 12.02%

Physical Description: Orange cryst. (EtOH/H₂O/CHCl₃)

Aldrich: 39301-0

Sigma: C5437

References:

Van Gompel, J. *et al.*, *J.O.C.*, 1987, **52**, 1465, (*synth, Me ester, chloride, pmr, uv, ms*)

Chinnakali, K. *et al.*, *Acta Cryst. C*, 1990, **46**, 837, (*nitrile, cryst struct*)

Honda, T. *et al.*, *Acta Cryst. C*, 1996, **52**, 679, (*cryst struct*)