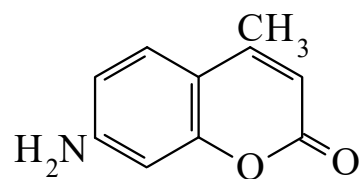




>>Entry Name: 7-Amino-4-methyl-2*H*-1-benzopyran-2-one, 9CI

Synonym(s): 7-Amino-4-methylcoumarin. Coumarin 120. AMC. Coumarin 440



CAS Registry Number: 26093-31-2

Related CAS Registry Numbers(s): 8066-05-5 19491-80-6

Molecular Formula: C₁₀H₉NO₂

Molecular Weight: 175.187

Accurate Mass: 175.063329

Percentage Composition: C 68.56%; H 5.18%; N 8.00%; O 18.27%

Use/Importance: Fluorescent labelling reagent for trace detn. of enzymes and saccharides. Laser dye. Commercially available

Physical Description: Light sensitive yellow rods (EtOH)

Melting Point: Mp 223-226°

Aldrich: 25737-0

Fluka: 8440

Rare Chemicals Library: S27220-5

Sigma: A9891

>>Derivative: *N,N*-Di-Me

Synonym(s): 7-Dimethylamino-4-methylcoumarin. Coumarin 311

CAS Registry Number: 87-01-4

Molecular Formula: C₁₂H₁₃NO₂

Molecular Weight: 203.24

Accurate Mass: 203.094629

Percentage Composition: C 70.92%; H 6.45%; N 6.89%; O 15.74%

Use/Importance: Laser dye

Melting Point: Mp 144-146°

Aldrich: 29651-1

Sigma: D3646

>>Derivative: *N*-Et

Synonym(s): 7-Ethylamino-4-methylcoumarin. Coumarin 445

CAS Registry Number: 28821-18-3

Molecular Formula: C₁₂H₁₃NO₂

Molecular Weight: 203.24

Accurate Mass: 203.094629

Percentage Composition: C 70.92%; H 6.45%; N 6.89%; O 15.74%

Use/Importance: Laser dye

>>Derivative: *N,N*-Di-Et

Synonym(s): 7-Diethylamino-4-methylcoumarin. Coumarin 1. Coumarin 47. Coumarin 460

CAS Registry Number: 91-44-1

Molecular Formula: C₁₄H₁₇NO₂

Molecular Weight: 231.294

Accurate Mass: 231.125929

Percentage Composition: C 72.70%; H 7.41%; N 6.06%; O 13.83%

Use/Importance: Laser dye. Used in optical brighteners and fluorescence labels

Melting Point: Mp 72-75°

Aldrich: D8775-9

Rare Chemicals Library: S27194-2