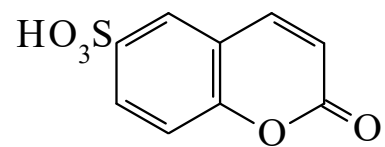




>>Entry Name: 2-Oxo-2H-1-benzopyran-6-sulfonic acid

Synonym(s): Coumarin-6-sulfonic acid



Molecular Formula: C₉H₆O₅S

Molecular Weight: 226.209

Accurate Mass: 225.993595

Percentage Composition: C 47.79%; H 2.67%; O 35.36%; S 14.18%

>>Derivative: Chloride

Synonym(s): 2-Oxo-2H-1-benzopyran-6-sulfonyl chloride, 9Cl. 6-(Chlorosulfonyl)coumarin, 8Cl. Coumarin-6-sulfonyl chloride

CAS Registry Number: 10543-42-7

Molecular Formula: C₉H₅ClO₄S

Molecular Weight: 244.655

Accurate Mass: 243.959707

Percentage Composition: C 44.18%; H 2.06%; Cl 14.49%; O 26.16%; S 13.11%

Use/Importance: Fluorescent label for amines, phenols and proteins

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 119-120°

References:

Merchant, J.R. *et al.*, *J. Indian Chem. Soc.*, 1957, **34**, 35, (*synth*)

Akusoba, E.U., *Fresenius' Z. Anal. Chem.*, 1985, **320**, 182, (*use*)

Al-Kindy, S.M. *et al.*, *Anal. Chim. Acta*, 1989, **227**, 145; 155, (*synth, use*)