

Certificate of Analysis

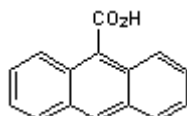
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Product Name: 9-AC
CAS Number: 723-62-6
IUPAC Name: 9-Anthracenecarboxylic acid

Catalog No.: 0963
Batch No.: 2
EC Number: 211-964-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₀O₂
Batch Molecular Weight: 222.24
Physical Appearance: Yellow solid
Solubility: ethanol to 10 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 217 - 220°C
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.07	4.54	
Found	81.04	4.6	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 723-62-6

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Description:

Cl⁻ transport inhibitor with a moderate to strong inhibitory action on PKA activated cardiac I_{Cl}.

Physical and Chemical Properties:

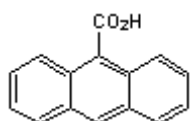
Batch Molecular Formula: C₁₅H₁₀O₂

Batch Molecular Weight: 222.24

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Cabantchik and Greger (1992) Chemical probes for anion transporters of mammalian cell membranes. *Am.J.Physiol.* **262** C803-C827. PMID: 1566811.

Gadsby et al (1995) The CFTR chloride channel of mammalian heart. *Annu.Rev.Physiol.* **57** 387. PMID: 7539989.

Estévez et al (2003) Conservation of chloride channel structure revealed by an inhibitor binding site in CIC-1. *Neuron* **38** 47. PMID: 12691663.

Pusch et al (2006) Channel or transporter? The CLC saga continues. *Exp.Physiol.* **91** 149. PMID: 16179405.

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