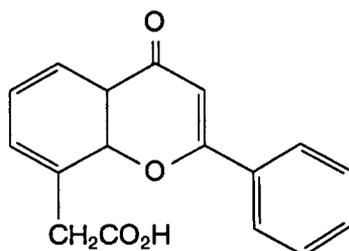


FLAVONE ACETIC ACID

NSC - 347512



Chemical Name:

4-Oxo-2-phenyl-4*H*-1-benzopyran-8-acetic acid

Other Names:

Flavone-8-acetic acid

CAS Registry Number: 87626-55-9

Molecular Formula: C₁₇H₁₂O₄

M.W.: 280.3

Approximate Solubility:

(mg/mL)

Water	< 0.1
0.1 N NaOH	≈ 20
0.1 N HCl	< 0.1
0.1 M NaHCO ₃	< 0.3
95% EtOH	1
MeOH	1
CHCl ₃	< 0.1

DMSO	> 100
TFA	> 100
10% DMSO	< 1

Stability:

Bulk:

As a bulk chemical, Flavone-8-acetic acid is stable for at least 3 months at 60 °C (HPLC).

Solution:

Solutions of 1 mg/mL dissolved in 0.1 N NaOH (pH 9) showed no decomposition for at least 27 hours.

High Performance Liquid Chromatography:

Column:	Varian, C ₁₈ , 5µm, 150 x 4 mm i.d.
Mobile Phase:	MeOH/H ₂ O/HAc (55/45/0.05)
Flow Rate:	1.0 mL/min
Detection:	UV at 254 nm
Sample Preparation:	Approximately 0.25 mg/mL is dissolved in internal standard solution
Internal Standard:	m-Nitroaniline (0.15 mg/mL in MeOH)
Retention Volume:	10.4 mL (NSC-347512)

Ultraviolet Absorption:

(95% EtOH)

λ_{max}

ϵ

296 \pm 2nm

21,200 - 21,800

256 \pm 2nm

19,000 - 20,300