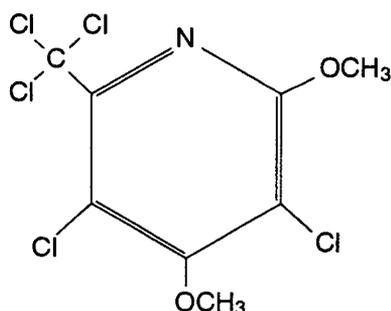


PENCLOMIDINE

NSC - 338720



Chemical Name:

3,5-Dichloro-2,4-dimethoxy-6-(trichloromethyl)pyridine

CAS Registry Number: 108030-77-9

Molecular Formula: C₈H₆Cl₅NO₂

M.W.: 325.4

Approximate Solubility:

(mg/mL)

Water	< 1
Acetate buffer (pH 4)	< 1
Carbonate buffer (pH 9)	< 1
0.1 N HCl	< 1
0.1 N NaOH	< 1
Ethanol (95%)	20-25
Methanol	30-33
n-Butanol	45-50
Acetone	> 100
Chloroform	> 100
Toluene	> 100

DMF	45-50
DMSO	45-50

Stability:

Bulk:

The bulk substance was found to be stable through 90 days when stored at room temperature and 50 °C under both light and dark conditions (HPLC).

Solution:

The compound was found to be stable in DMF/water (50/50, v/v) for at least 72 hr (HPLC).

Ultraviolet Absorption:

(methanol)

λ_{\max}	ϵ
290 ± 2 nm	5110 ± 50
243 ± 2 nm	6990 ± 130
214 ± 2 nm	24,130 ± 1090

High Performance Liquid Chromatography:

Column:	μ Bondapak C ₁₈ , 10 μ , 300 x 3.9 mm i.d.
Mobile Phase:	Acetonitrile/water (65/35, v/v)
Flow Rate:	1.0 mL/min
Detection:	UV at 214 nm

Sample Preparation: Accurately weighed samples are serially diluted with acetonitrile to give the appropriate concentration (\approx 300 to \approx 1.500 mg/mL).

Internal Standard: Decanophenone, 0.3 mg/mL in mobile phase

Retention Volume: 17.3 mL (NSC 338720)
31.4 mL (I.S.)