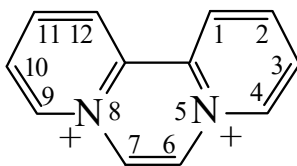




>>Entry Name: Dipyrido[1,2-*a*:2',1'-*c*]pyrazinediium(2+), 9Cl

Synonym(s): 8*a*,10*a*-Diazoniaphenanthrene



CAS Registry Number: 231-36-7

Related CAS Registry Numbers(s): 36351-27-6

Molecular Formula: C<sub>12</sub>H<sub>10</sub>N<sub>2</sub><sup>2(+)</sup>

Molecular Weight: 182.224

Accurate Mass: 182.084398

Percentage Composition: C 79.10%; H 5.53%; N 15.37%

Use/Importance: Has herbicidal activity

>>Derivative: Dichloride

CAS Registry Number: 21324-14-1

Molecular Formula: C<sub>12</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>

Molecular Weight: 253.13

Accurate Mass: 252.022102

Percentage Composition: C 56.94%; H 3.98%; Cl 28.01%; N 11.07%

Physical Description: Prisms (MeOH)

Melting Point: Mp 250-300°

>>Derivative: Dibromide

CAS Registry Number: 1203-53-8

Molecular Formula: C<sub>12</sub>H<sub>10</sub>Br<sub>2</sub>N<sub>2</sub>

Molecular Weight: 342.032

Accurate Mass: 339.96107

Percentage Composition: C 42.14%; H 2.95%; Br 46.72%; N 8.19%

Use/Importance: Herbicide

Physical Description: Yellow needles (MeOH/Et<sub>2</sub>O), yellow plates + 1H<sub>2</sub>O (Me<sub>2</sub>CO/MeOH)

Melting Point: Mp 350° (271-272° dec.)

>>Derivative: Dipicrate

CAS Registry Number: 3886-23-5

Physical Description: Orange prisms (Me<sub>2</sub>CO/H<sub>2</sub>O); Yellow needles (H<sub>2</sub>O)

Melting Point: Mp 271-272° (265-269° dec.)

#### References:

- Corr, D.H. *et al.*, *J.C.S.*, 1965, 5816, (*derivs*, *uv*)  
Calder, I.C. *et al.*, *Tet. Lett.*, 1965, 1465, (*derivs*, *uv*, *pmr*)  
Calder, I.C. *et al.*, *Aust. J. Chem.*, 1968, **21**, 2951, (*derivs*)  
Perry, J.E., *Acta Cryst. B*, 1972, **28**, 1244, (*cryst struct*)  
Norris, D.J. *et al.*, *Can. J. Chem.*, 1977, **55**, 2601, (*uv*, *pmr*)