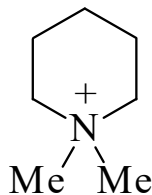




>>Entry Name: 1,1-Dimethylpiperidinium(1+), 9Cl

Synonym(s): Mepiquat, BSI, ISO



CAS Registry Number: 15302-91-7

Molecular Formula: $C_7H_{16}N^{(+)}$

Molecular Weight: 114.21

Accurate Mass: 114.128274

Percentage Composition: C 73.62%; H 14.12%; N 12.26%

>>Derivative: Chloride

Synonym(s): Mepiquat chloride. Pix

CAS Registry Number: 24307-26-4

Molecular Formula: $C_7H_{16}ClN$

Molecular Weight: 149.663

Accurate Mass: 149.097126

Percentage Composition: C 56.18%; H 10.78%; Cl 23.69%; N 9.36%

Use/Importance: Plant growth regulator

Physical Description: Cryst.

Melting Point: Mp 223°

Other Data: Hygroscopic

Hazard & Toxicity: LD₅₀ (rat, orl) 1420 mg/kg

Sigma: D2265

>>Derivative: Cyanide

CAS Registry Number: 69667-02-3

Molecular Formula: $C_8H_{16}N_2$

Molecular Weight: 140.228

Accurate Mass: 140.131348

Percentage Composition: C 68.52%; H 11.50%; N 19.98%

Melting Point: Mp 215°

>>Derivative: Iodide

CAS Registry Number: 3333-08-2

Molecular Formula: $C_7H_{16}IN$

Molecular Weight: 241.115

Accurate Mass: 241.032747

Percentage Composition: C 34.87%; H 6.69%; I 52.63%; N 5.81%

Melting Point: Mp 300°

Rare Chemicals Library: S34731-0

References:

Wittig, G. *et al.*, *Annalen*, 1956, **599**, 13, (*synth, iodide*)

Kobler, H. *et al.*, *Annalen*, 1978, 1937, (*synth, ir, cyanide, chloride*)

Ger. Pat., 1981, 3 007 224; *CA*, **95**, 163907b, (*activity*)

Sugiura, M. *et al.*, *Org. Magn. Reson.*, 1982, **20**, 37, (*synth, cmr, iodide*)

Pesticide Manual, 10th edn., 1994, No. 447