



>>Entry Name: Dimethyldi-2-propenylammonium(1+)

Synonym(s): *N,N*-Dimethyl-*N*-2-propenyl-2-propen-1-aminium, 9Cl. Diallyldimethylammonium, 8Cl

CAS Registry Number: 48042-45-1

$(\text{H}_2\text{C}=\text{CHCH}_2)_2\text{N}^{(+)}\text{Me}_2$

Molecular Formula: $\text{C}_8\text{H}_{16}\text{N}$

Molecular Weight: 126.221

Accurate Mass: 126.128274

Percentage Composition: C 76.13%; H 12.78%; N 11.10%

>>Derivative: Chloride

CAS Registry Number: 7398-69-8

Molecular Formula: $\text{C}_8\text{H}_{16}\text{ClN}$

Molecular Weight: 161.674

Accurate Mass: 161.097126

Percentage Composition: C 59.43%; H 9.97%; Cl 21.93%; N 8.66%

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 146-147°

>>Derivative: Bromide

CAS Registry Number: 14764-64-8

Molecular Formula: $\text{C}_8\text{H}_{16}\text{BrN}$

Molecular Weight: 206.125

Accurate Mass: 205.06661

Percentage Composition: C 46.62%; H 7.82%; Br 38.76%; N 6.80%

Physical Description: V. hygroscopic solid

References:

Negi, Y. *et al.*, *J. Polym. Sci., Part A-1*, 1967, **5**, 1951-1965, (*synth*)

Harada, S. *et al.*, *Makromol. Chem.*, 1967, **107**, 64-67, (*synth*)

U.S. Pat., 1969, 3 461 163; *CA*, **71**, 80665z, (*synth*)

Yang, Y.J. *et al.*, *J.O.C.*, 1991, **56**, 4300-4304, (*synth*, *pmr*)