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>>Entry Name: Crotonobetaine

Synonym(s): 3-Carboxy-*N,N,N*-trimethyl-2-propen-1-aminium hydroxide, inner salt, 9Cl. Crotonbetaine

CAS Registry Number: 927-89-9

$\text{Me}_3\text{N}^{(+)}\text{CH}_2\text{CH}=\text{CHCOO}^{(-)}$

Molecular Formula:  $\text{C}_7\text{H}_{13}\text{NO}_2$

Molecular Weight: 143.185

Accurate Mass: 143.094629

Percentage Composition: C 58.72%; H 9.15%; N 9.78%; O 22.35%

Source/Synthesis: Isol. from brain extract of stressed animals

>>Derivative: Hydrochloride

CAS Registry Number: 6538-82-5

Molecular Formula:  $\text{C}_7\text{H}_{14}\text{ClNO}_2$

Molecular Weight: 179.646

Percentage Composition: C 46.80%; H 7.85%; Cl 19.73%; N 7.80%; O 17.81%

Physical Description: Prisms

Melting Point: Mp 203-205 dec.°

>>Derivative: Picrate

Physical Description: Needles ( $\text{H}_2\text{O}$ )

Melting Point: Mp 187-189°

References:

Bergel, F. *et al.*, *J.C.S.*, 1950, 1439, (*synth, betaine*)

Hosein, E.A., *Arch. Biochem. Biophys.*, 1963, **100**, 32, (*isol*)

Eneroth, P. *et al.*, *Anal. Biochem.*, 1965, **10**, 377, (*chromatog*)

*Japan. Pat.*, 1986, 61 243 051; *CA*, **106**, 119284t, (*synth*)