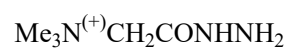




>>Entry Name: Girard's reagent T

Synonym(s): 2-Hydrazino-*N,N,N*-trimethyl-2-oxoethanaminium, 9Cl. (Carboxymethyl)trimethylammonium hydrazide, 8Cl



Molecular Formula: $\text{C}_5\text{H}_{14}\text{N}_3\text{O}^{(+)}$

Molecular Weight: 132.185

Accurate Mass: 132.113687

Percentage Composition: C 45.43%; H 10.67%; N 31.79%; O 12.10%

Use/Importance: Reagent for forming water-sol. derivs. with carbonyl compds., used esp. in isoln. of steroids

pKa Value: $\text{p}K_{\text{a}}$ 2.09

>>Derivative: Chloride

CAS Registry Number: 123-46-6

Molecular Formula: $\text{C}_5\text{H}_{14}\text{ClN}_3\text{O}$

Molecular Weight: 167.638

Accurate Mass: 167.082539

Percentage Composition: C 35.82%; H 8.42%; Cl 21.15%; N 25.07%; O 9.54%

Physical Description: Needles

Melting Point: Mp 192 sl. dec.°

Other Data: V. hygroscopic

Aldrich: G90-0

Fluka: 48930

Sigma: C1757

References:

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Girard, A. *et al.*, *Helv. Chim. Acta*, 1936, **19**, 1095, (*synth*)

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Wheeler, O.H., *Chem. Rev.*, 1962, **62**, 205, (*rev*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 410

Wheeler, O.H., *J. Chem. Educ.*, 1968, **45**, 435, (*rev*)