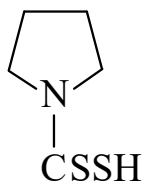




>>Entry Name: 1-Pyrrolidinecarbodithioic acid, 8Cl

Synonym(s): Tetramethylenedithiocarbamic acid



CAS Registry Number: 25769-03-3

Molecular Formula: C₅H₉NS₂

Molecular Weight: 147.265

Accurate Mass: 147.017639

Percentage Composition: C 40.78%; H 6.16%; N 9.51%; S 43.55%

pKa Value: pK_{a1} 3.29 (25°)

>>Derivative: NH₄ salt

Synonym(s): Ammonium pyrrolidine dithiocarbamate. APDC

CAS Registry Number: 5108-96-3

Use/Importance: Used as 0.01M aq. soln. for photometric detn. of Bi, Cu, Nb, Sb, Sn, Te, Zn; extraction-separation of As

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 153-155°. Mp 142-144°

Solubility: Sol. H₂O, EtOH, CHCl₃

Aldrich: 14269-7

Fluka: 9935

Sigma: P8765

References:

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Kovacs, E. *et al.*, *Fresenius' Z. Anal. Chem.*, 1962, **186**, 267; 1965, **208**, 255, (*use*)

Likussar, W. *et al.*, *Anal. Chem.*, 1971, **43**, 1273, (*detn. Cu, Co, Cd, Zn*)

Dellien, I., *Talanta*, 1979, **26**, 1101, (*use*)

Nichols, J.A. *et al.*, *J. Assoc. Off. Anal. Chem.*, 1980, **63**, 500, (*use*)

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