



>>Entry Name: 3-[(Aminoiminomethyl)thio]propanoic acid, 9CI

Synonym(s):  $\beta$ -Isothioureidopropionic acid. Isothiourea-S-propanoic acid

CAS Registry Number: 5398-29-8

$\text{HN}=\text{C}(\text{NH}_2)\text{-S-CH}_2\text{CH}_2\text{COOH}$

Molecular Formula:  $\text{C}_4\text{H}_8\text{N}_2\text{O}_2\text{S}$

Molecular Weight: 148.185

Accurate Mass: 148.030648

Percentage Composition: C 32.42%; H 5.44%; N 18.90%; O 21.59%; S 21.64%

Use/Importance: Used as a 2.5% soln. in aq.  $\text{NH}_3$  to give colour reaction with Ni ( $\lambda_{\text{max}}$  425 nm)

Physical Description: Cryst. (hot  $\text{H}_2\text{O}$ )

Melting Point: Mp 178-179°

Rare Chemicals Library: S35181-4

#### References:

Gresham, T.L. *et al.*, *J.A.C.S.*, 1948, **70**, 1001, (*synth*)

Uhlig, L.J. *et al.*, *Anal. Chem.*, 1951, **23**, 1014, (*detn, Ni*)

Vladzimirskaya, E. *et al.*, *CA*, 1973, **79**, 65755a, (*synth*)