



>>Entry Name: 2-Phenylthiosemicarbazide

Synonym(s): 2-Phenylhydrazinecarbothioamide, 9CI

CAS Registry Number: 645-48-7

$\text{H}_2\text{NCSNPhNH}_2$

Molecular Formula: $\text{C}_7\text{H}_9\text{N}_3\text{S}$

Molecular Weight: 167.234

Accurate Mass: 167.051717

Percentage Composition: C 50.28%; H 5.42%; N 25.13%; S 19.17%

Use/Importance: Used for photometric detn. of Rh

Physical Description: Cryst. (H_2O)

Melting Point: Mp 153°

Fluka: 79190

References:

Mautner, H.G. *et al.*, *J.A.C.S.*, 1956, **78**, 97, (*synth*)

Furlani, C. *et al.*, *Gazz. Chim. Ital.*, 1973, **103**, 951, (*synth*)

Borisova, L.V. *et al.*, *Zh. Anal. Khim.*, 1974, **29**, 743, (*detn. Rh*)

Sharbatyan, P.A. *et al.*, *Zh. Org. Khim.*, 1978, **14**, 116, (*ms*)

Domeniano, A. *et al.*, *Acta Cryst. B*, 1979, **35**, 1382, (*struct*)

Vinkler, P. *et al.*, *Spectrochim. Acta A*, 1981, **37**, 801, (*ir*)

Toku, H. *et al.*, *CA*, 1984, **100**, 191519s, (*synth*)