



>>Entry Name: Triphenylstibine sulfide, 9Cl, 8Cl

CAS Registry Number: 3958-19-8

$\text{Ph}_3\text{Sb}=\text{S}$

Molecular Formula: $\text{C}_{18}\text{H}_{15}\text{SSb}$

Molecular Weight: 385.132

Accurate Mass: 383.993266

Percentage Composition: C 56.14%; H 3.93%; S 8.33%; Sb 31.61%

Source/Synthesis: Synth. from Ph_3SbCl_2 and H_2S , Na_2S or $\text{Na}_2\text{S}_2\text{O}_3$

Use/Importance: Co-catalyst for $\text{TiCl}_3/\text{Et}_2\text{AlCl}/\text{P}(\text{OBu})_3$ catalysed polym. of alkenes

Physical Description: Monoclinic needles (EtOH)

Melting Point: Mp 110-112°. Mp 119-120°

Solubility: V. sol. C_6H_6 , CHCl_3 , HOAc; sol. EtOH; sl. sol. Et_2O , petrol

Other Data: Easily loses S to more reactive substance e.g. Ph_2PMe , Ph_2AsMe

Rare Chemicals Library: S61705-9

References:

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Pebler, J. *et al.*, *Z. Anorg. Allg. Chem.*, 1982, **492**, 139, (*cryst struct, Mössbauer*)

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