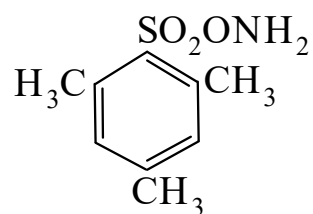




>>Entry Name: *O*-(2,4,6-Trimethylphenyl)sulfonylhydroxylamine, 9CI

Synonym(s): *O*-Mesitylenesulfonylhydroxylamine. MSH



CAS Registry Number: 36016-40-7

Molecular Formula: C₉H₁₃NO₃S

Molecular Weight: 215.273

Accurate Mass: 215.061614

Percentage Composition: C 50.21%; H 6.09%; N 6.51%; O 22.30%; S 14.90%

Use/Importance: Powerful aminating agent

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 93-94°

Hazard & Toxicity: Dried cryst. material has been reported as exploding

References:

Kraus, J.G., *Synthesis*, 1972, 140, (*synth*)

Tamura, Y. *et al.*, *J.O.C.*, 1973, **38**, 1239-1241, (*synth*)

Tamura, Y. *et al.*, *Synthesis*, 1977, 1-17, (*synth, use, rev*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 319; 1982, **10**, 256, (*use*)

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2967