



>>Entry Name: 1,1,1-Trifluoro-*N*-phenyl-*N*-[(trifluoromethyl)sulfonyl]methanesulfonamide, 9CI

Synonym(s): Phenyl triflimide. *N*-Phenyltrifluoromethanesulfonimide

CAS Registry Number: 37595-74-7

PhN(SO₂CF₃)₂

Molecular Formula: C₈H₅F₆NO₄S₂

Molecular Weight: 357.254

Accurate Mass: 356.956417

Percentage Composition: C 26.90%; H 1.41%; F 31.91%; N 3.92%; O 17.91%; S 17.95%

Use/Importance: Reagent for triflations

Melting Point: Mp 93-94°. Mp 98°

Other Data: Indefinitely stable

Aldrich: 29597-3

Fluka: 78175

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1628B, (*nmr*)

Hendrickson, J.B. *et al.*, *Tet. Lett.*, 1973, 4607-4610, (*synth*)

Yagupol'skii, L.M. *et al.*, *J. Org. Chem. USSR (Engl. Transl.)*, 1974, **10**, 901-902, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1975, **5**, 530; **13**, 248; **12**, 395, (*use*)

Crisp, G.T. *et al.*, *Synthesis*, 1985, 335-337, (*use*)