>>**Entry Name: 1,1,1,3,3,3-Hexafluoro-2-phenyl-2-propanol**
Synonym(s): α,α-Bis(trifluoromethyl)benzenemethanol, 9CI. α,α-Bis(trifluoromethyl)benzyl alcohol, 8CI

CAS Registry Number: 718-64-9
$(F_3C)_2CPhOH$

Molecular Formula: $C_9H_6F_6O$
Molecular Weight: 244.136
Accurate Mass: 244.032283
Percentage Composition: C 44.28%; H 2.48%; F 46.69%; O 6.55%
Boiling Point: Bp 152-155°. Bp_{24} 95-97°
Density: d 1.45
pKa Value: pK_a 8.8
Refractive Index: n_D^{30} 1.4133

Aldrich: 10756-5

>>**Derivative:** Ac

CAS Registry Number: 40999-29-9
Molecular Formula: $C_{11}H_8F_6O_2$
Molecular Weight: 286.173
Accurate Mass: 286.042848
Percentage Composition: C 46.17%; H 2.82%; F 39.83%; O 11.18%
Melting Point: Mp 45-47°

>>**Derivative:** Benzoyl

CAS Registry Number: 40999-26-6
Molecular Formula: $C_{16}H_{10}F_6O_2$
Molecular Weight: 348.244
Accurate Mass: 348.058498
Percentage Composition: C 55.18%; H 2.89%; F 32.73%; O 9.19%
Melting Point: Mp 47.5-49°

>>**Derivative:** 4-Nitrobenzoyl

CAS Registry Number: 57633-49-5
Melting Point: Mp 138-139°

>>**Derivative:** 4-Chlorobenzoyl

Melting Point: Mp 90-91°

References:

Knunyants, I.L. *et al.*, *Izv. Akad. Nauk SSSR, Otd. Khim. Nauk*, 1960, 686; *CA*, **54**, 22485a, *(synth)*
Olah, G.A. *et al.*, *J.A.C.S.*, 1966, **8**, 3310-3312, *(pmr, F-19 nmr)*
Brownlee, R.T.C. *et al.*, *J.A.C.S.*, 1968, **90**, 1757-1767, *(synth, ir)*
Chang, I.S. *et al.*, *Can. J. Chem.*, 1972, **50**, 512-520, *(synth, props)*
Martin, J.C. *et al.*, *J.A.C.S.*, 1975, **97**, 6137, *(derivs, synth, pmr, F-19 nmr)*