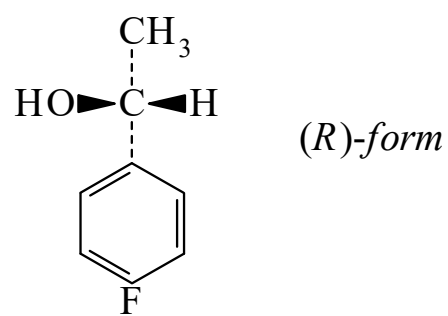




>>Entry Name: 1-(4-Fluorophenyl)ethanol

Synonym(s): 4-Fluoro- α -methylbenzenemethanol, 9CI. 4-Fluoro- α -methylbenzyl alcohol, 8CI



Related CAS Registry Numbers(s): 101219-73-2 147164-50-9

Molecular Formula: C₈H₉FO

Molecular Weight: 140.157

Accurate Mass: 140.063743

Percentage Composition: C 68.56%; H 6.47%; F 13.56%; O 11.42%

>>Variant: (R)-form

CAS Registry Number: 101219-68-5

Molecular Formula: C₈H₉FO

Molecular Weight: 140.157

Accurate Mass: 140.063743

Percentage Composition: C 68.56%; H 6.47%; F 13.56%; O 11.42%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{20} +40.2$ (c, 1.2 in CHCl₃)

>>Variant: (S)-form

CAS Registry Number: 101219-73-2

Molecular Formula: C₈H₉FO

Molecular Weight: 140.157

Accurate Mass: 140.063743

Percentage Composition: C 68.56%; H 6.47%; F 13.56%; O 11.42%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{20} -41$ (c, 1.30 in CHCl₃)

>>Variant: (±)-form

Molecular Formula: C₈H₉FO

Molecular Weight: 140.157

Accurate Mass: 140.063743

Percentage Composition: C 68.56%; H 6.47%; F 13.56%; O 11.42%

Physical Description: Oil

Boiling Point: Bp₅ 96-97°

Refractive Index: n_D²⁵ 1.5035

References:

Bachman, G.B. *et al.*, *J.A.C.S.*, 1947, **69**, 2022, (*synth*)

Sianesi, D., *Gazz. Chim. Ital.*, 1959, **89**, 1749, (*synth*)

Neiduzak, T.R. *et al.*, *Tetrahedron: Asymmetry*, 1991, **2**, 113, (*synth, pmr*)

Mathre, D.J. *et al.*, *J.O.C.*, 1993, **58**, 2880, (*synth, pmr*)