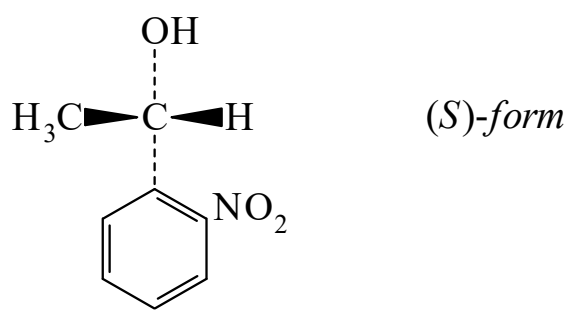




>>Entry Name: 1-(2-Nitrophenyl)ethanol

Synonym(s): α -Methyl-2-nitrobenzenemethanol, 9Cl. α -Methyl-*o*-nitrobenzyl alcohol, 8Cl. Methyl *o*-nitrophenylcarbinol



CAS Registry Number: 3205-25-2

Related CAS Registry Numbers(s): 108530-03-6

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

>>Variant: (*S*)-form

CAS Registry Number: 80379-10-8

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Physical Description: Cryst.

Melting Point: Mp 60-61°

Optical Rotation: $[\alpha]_D +54.2$ (c, 0.98 in $CHCl_3$). $[\alpha]_D +215.7$ (c, 1.01 in AcOH)

>>Variant: ($\pm$)-form

CAS Registry Number: 142631-59-2

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Physical Description: Viscous yellow oil

Boiling Point: Bp₃ 131-132°

>>Derivative: 4-Nitrobenzoyl

Physical Description: Pale-yellow cryst.

Melting Point: Mp 145-146°

References:

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Lesniak, T., *Pol. J. Chem. (Rocz. Chem.)*, 1962, **36**, 173; *CA*, **59**, 8684, (*synth*)

Nagai, U. *et al.*, *Tetrahedron*, 1965, **21**, 1701, (*synth, ir*)

Corrie, J.E.T. *et al.*, *J.C.S. Perkin 1*, 1992, 1015, (*resoln*)

Scheigetz, J. *et al.*, *Synth. Commun.*, 2000, **30**, 1437-1445, (*synth, pmr*)