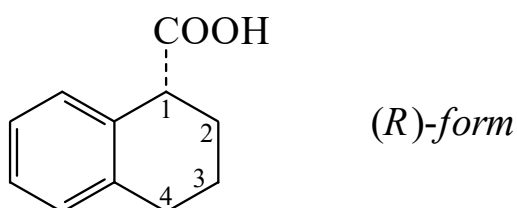




>>Entry Name: 1,2,3,4-Tetrahydro-1-naphthalenecarboxylic acid, 9Cl

Synonym(s): 1,2,3,4-Tetrahydro-1-naphthoic acid, 8Cl. Tetralin-1-carboxylic acid



CAS Registry Number: 1914-65-4

Molecular Formula: C₁₁H₁₂O₂

Molecular Weight: 176.215

Accurate Mass: 176.08373

Percentage Composition: C 74.98%; H 6.86%; O 18.16%

>>Variant: (R)-form

CAS Registry Number: 23357-47-3

Molecular Formula: C₁₁H₁₂O₂

Molecular Weight: 176.215

Accurate Mass: 176.08373

Percentage Composition: C 74.98%; H 6.86%; O 18.16%

Melting Point: Mp 55-56°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +64$ (c, 2.1 in C₆H₆)

>>Variant: (S)-form

Molecular Formula: C₁₁H₁₂O₂

Molecular Weight: 176.215

Accurate Mass: 176.08373

Percentage Composition: C 74.98%; H 6.86%; O 18.16%

Melting Point: Mp 54.5-55.5°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -63.4$ (c, 1.5 in C₆H₆)

>>Variant: (±)-form

Molecular Formula: C₁₁H₁₂O₂

Molecular Weight: 176.215

Accurate Mass: 176.08373

Percentage Composition: C 74.98%; H 6.86%; O 18.16%

Physical Description: Prisms (EtOAc)

Melting Point: Mp 85°

Boiling Point: Bp_{0.5} 110-112°

>>Derivative: Et ester

CAS Registry Number: 66041-55-2

Molecular Formula: C₁₃H₁₆O₂

Molecular Weight: 204.268

Accurate Mass: 204.11503

Percentage Composition: C 76.44%; H 7.89%; O 15.67%

Boiling Point: Bp₇₄₉ 279°

References:

Pickard, R.H. *et al.*, *J.C.S.*, 1906, 1101, (*resoln*)

Kay, F.W. *et al.*, *J.C.S.*, 1914, 1565

Ansell, M.F. *et al.*, *J.C.S.*, 1950, 2874

Letsinger, R.L. *et al.*, *J.O.C.*, 1960, **25**, 1844, (*uv*)

Pracejus, H. *et al.*, *Chem. Ber.*, 1963, **96**, 854

Weidmann, R. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1969, **268**, 2225, (*abs config*)