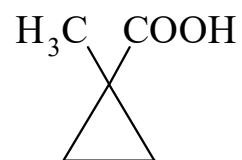




>>Entry Name: 1-Methylcyclopropanecarboxylic acid, 9CI



CAS Registry Number: 6914-76-7

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 28-31°

Boiling Point: Bp 183-185°

Aldrich: 20560-5

>>Derivative: Me ester

CAS Registry Number: 6206-25-3

Molecular Formula: C₆H₁₀O₂

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Boiling Point: Bp 121-123°

>>Derivative: Et ester

CAS Registry Number: 71441-76-4

Molecular Formula: C₇H₁₂O₂

Molecular Weight: 128.171

Accurate Mass: 128.08373

Percentage Composition: C 65.60%; H 9.44%; O 24.97%

Boiling Point: Bp 136-138°

Refractive Index: n_D²⁰ 1.4200

Aldrich: 20978-3

Sigma: M3638

>>Derivative: Amide

CAS Registry Number: 15910-91-5

Molecular Formula: C₅H₉NO

Molecular Weight: 99.132

Accurate Mass: 99.068414

Percentage Composition: C 60.58%; H 9.15%; N 14.13%; O 16.14%

Melting Point: Mp 143-145°

>>Derivative: Nitrile

Synonym(s): 1-Cyano-1-methylcyclopropane

CAS Registry Number: 78104-88-8

Molecular Formula: C₅H₇N

Molecular Weight: 81.117

Accurate Mass: 81.057849

Percentage Composition: C 74.04%; H 8.70%; N 17.27%

Boiling Point: Bp 127-127.5°

References:

Kohn, M. *et al.*, *Monatsh. Chem.*, 1921, **42**, 227, (*synth*)

Gotkis, D. *et al.*, *J.A.C.S.*, 1934, **56**, 2710, (*synth*)

Cannon, G.W. *et al.*, *J.A.C.S.*, 1959, **81**, 1660, (*Et ester, synth, uv*)

Johnston, L.J. *et al.*, *J.A.C.S.*, 1986, **108**, 2343, (*synth, pmr*)