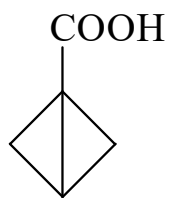




>>Entry Name: Bicyclo[1.1.0]butane-1-carboxylic acid



CAS Registry Number: 30493-99-3

Molecular Formula: C₅H₆O₂

Molecular Weight: 98.101

Accurate Mass: 98.03678

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Physical Description: Cryst. (pentane)

Melting Point: Mp 51 approx.° (polymerises)

>>Derivative: Et ester

Synonym(s): 1-Carbethoxybicyclo[1.1.0]butane

CAS Registry Number: 29820-55-1

Molecular Formula: C₇H₁₀O₂

Molecular Weight: 126.155

Accurate Mass: 126.06808

Percentage Composition: C 66.65%; H 7.99%; O 25.36%

Boiling Point: Bp₁₅ 56-58°

>>Derivative: Nitrile

Synonym(s): 1-Cyanobicyclo[1.1.0]butane

CAS Registry Number: 16955-35-4

Molecular Formula: C₅H₅N

Molecular Weight: 79.101

Accurate Mass: 79.042199

Percentage Composition: C 75.92%; H 6.37%; N 17.71%

Boiling Point: Bp₄ 38°

References:

Wiberg, K.B. *et al.*, *J.A.C.S.*, 1959, **81**, 5261, (*ester*)

Kirmse, W. *et al.*, *Annalen*, 1970, **739**, 231, (*ester*)

Hall, H.K. *et al.*, *J.A.C.S.*, 1971, **93**, 110; 121,, (*derivs, synth, ir, pmr*)