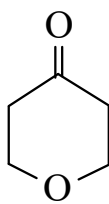




>>Entry Name: Tetrahydro-4*H*-pyran-4-one, 9CI



CAS Registry Number: 29943-42-8

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

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

Boiling Point: Bp₇₄₂ 163-166°. Bp₁₈ 67-69°

Solubility: Misc. with H₂O

Aldrich: 19824-2

Fluka: 87475

>>Derivative: Oxime

CAS Registry Number: 61128-73-2

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.132

Accurate Mass: 115.063329

Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

Physical Description: Cryst. (EtOH or Et₂O)

Melting Point: Mp 87-88°

Boiling Point: Bp₁₃ 111°

>>Derivative: *p*-Nitrophenylhydrazone

Physical Description: Orange-brown needles (EtOH)

Melting Point: Mp 186°

>>Derivative: Di-Me acetal

CAS Registry Number: 28218-71-5

Molecular Formula: C₇H₁₄O₃

Molecular Weight: 146.186

Accurate Mass: 146.094295

Percentage Composition: C 57.51%; H 9.65%; O 32.83%

Physical Description: Liq.

Boiling Point: Bp₁₅ 64-66°

References:

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Reese, C.B. *et al.*, *Tetrahedron*, 1970, **26**, 1023-1030, (*di-Me acetal, synth, pmr*)

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Grouiller, A. *et al.*, *J. Het. Chem.*, 1976, **13**, 853, (*oxime*)