



**Molecular Weight:** 180.16  
**Accurate Mass:** 180.04226  
**Percentage Composition:** C 60.00%; H 4.48%; O 35.52%

>>Derivative: Me ether

**Melting Point:** Mp 261-264 dec.° (as K salt)

>>Derivative: Me ether, Me ester

**CAS Registry Number:** 42245-42-1  
**Molecular Formula:** C<sub>11</sub>H<sub>12</sub>O<sub>4</sub>  
**Molecular Weight:** 208.213  
**Accurate Mass:** 208.07356  
**Percentage Composition:** C 63.45%; H 5.81%; O 30.74%  
**Physical Description:** Cryst. (MeOH)  
**Melting Point:** Mp 66-69°  
**Boiling Point:** Bp<sub>40</sub> 104-106°  
**Aldrich:** 29798-4

>>Derivative: Me ether, Et ester

**Physical Description:** Yellow cryst. (EtOH)  
**Melting Point:** Mp 40-43°  
**Boiling Point:** Bp<sub>1.5</sub> 154-156°

>>Derivative: Me ether, amide

**Molecular Formula:** C<sub>10</sub>H<sub>11</sub>NO<sub>3</sub>  
**Molecular Weight:** 193.202  
**Accurate Mass:** 193.073894  
**Percentage Composition:** C 62.17%; H 5.74%; N 7.25%; O 24.84%  
**Physical Description:** Cryst. (EtOH)  
**Melting Point:** Mp 151°

>>Derivative: Me ether, nitrile

**Molecular Formula:** C<sub>10</sub>H<sub>9</sub>NO<sub>2</sub>  
**Molecular Weight:** 175.187  
**Accurate Mass:** 175.063329  
**Percentage Composition:** C 68.56%; H 5.18%; N 8.00%; O 18.27%  
**Boiling Point:** Bp<sub>6</sub> 156-157°  
**Density:** d<sub>4</sub><sup>25</sup> 1.17  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.5500

#### References:

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Cragg, J.E. *et al.*, *J.C.S. Perkin I*, 1982, 2487, (*synth, ir, pmr, ms*)  
Crotti, P. *et al.*, *J.O.C.*, 1986, **51**, 2759, (*synth, derivs, pmr*)  
Svoboda, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1988, **53**, 822, (*synth, derivs, pmr, ms*)  
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Watson, K.G. *et al.*, *Chem. Comm.*, 1990, 1018, (*synth, derivs, resoln*)  
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