



**CAS Registry Number:** 88331-96-8

**Molecular Formula:** C<sub>21</sub>H<sub>22</sub>O<sub>7</sub>

**Molecular Weight:** 386.401

**Accurate Mass:** 386.136555

**Percentage Composition:** C 65.28%; H 5.74%; O 28.98%

**Physical Description:** Syrup

**Optical Rotation:**  $[\alpha]_{\text{D}}^{24} +57.3$  (c, 2.4 in CH<sub>2</sub>Cl<sub>2</sub>)

>>**Derivative:** 2,3-Carbonate

**CAS Registry Number:** 75100-10-6

**Molecular Formula:** C<sub>8</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 204.179

**Accurate Mass:** 204.06339

**Percentage Composition:** C 47.06%; H 5.92%; O 47.02%

**Physical Description:** Cryst. (EtOAc/petrol)

**Melting Point:** Mp 160-162°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{22} -71.3$  (c, 1.1 in CH<sub>2</sub>Cl<sub>2</sub>)

>>**Derivative:** 2,3-Isopropylidene

**Synonym(s):** Methyl 2,3-*O*-isopropylidene- $\alpha$ -L-rhamnopyranoside

**CAS Registry Number:** 14133-63-2

**Molecular Formula:** C<sub>10</sub>H<sub>18</sub>O<sub>5</sub>

**Molecular Weight:** 218.249

**Accurate Mass:** 218.115425

**Percentage Composition:** C 55.03%; H 8.31%; O 36.65%

**Boiling Point:** Bp<sub>0.8</sub> 104-105°

**Optical Rotation:**  $[\alpha]_{\text{D}} -16.4$  (c, 3.1 in Me<sub>2</sub>CO).  $[\alpha]_{\text{D}} -11.9$  (c, 1 in MeOH)

>>**Derivative:** 2,3-Isopropylidene, 4-Ac

**Synonym(s):** Methyl 4-*O*-acetyl-2,3-*O*-isopropylidene- $\alpha$ -L-rhamnopyranoside

**CAS Registry Number:** 14686-86-3

**Molecular Formula:** C<sub>12</sub>H<sub>20</sub>O<sub>6</sub>

**Molecular Weight:** 260.286

**Accurate Mass:** 260.12599

**Percentage Composition:** C 55.37%; H 7.74%; O 36.88%

**Physical Description:** Cryst. (EtOH)

**Melting Point:** Mp 68°

**Optical Rotation:**  $[\alpha]_{\text{D}} -16$  (c, 1 in CHCl<sub>3</sub>)

>>**Derivative:** 2,3-Isopropylidene, 4-benzoyl

**Synonym(s):** Methyl 4-*O*-benzoyl-2,3-*O*-isopropylidene- $\alpha$ -L-rhamnopyranoside

**CAS Registry Number:** 71204-48-3

**Molecular Formula:** C<sub>17</sub>H<sub>22</sub>O<sub>6</sub>

**Molecular Weight:** 322.357

**Accurate Mass:** 322.14164

**Percentage Composition:** C 63.34%; H 6.88%; O 29.78%

**Melting Point:** Mp 97-98°

**Optical Rotation:**  $[\alpha]_{\text{D}} -2$  (c, 1 in MeOH)

>>**Derivative:** 2,3-Isopropylidene, 4-mesyl

**Synonym(s):** Methyl 2,3-*O*-isopropylidene-4-*O*-mesyl- $\alpha$ -L-rhamnopyranoside

**CAS Registry Number:** 15397-01-0

**Molecular Formula:** C<sub>11</sub>H<sub>20</sub>O<sub>7</sub>S

**Molecular Weight:** 296.341

**Accurate Mass:** 296.092975

**Percentage Composition:** C 44.58%; H 6.80%; O 37.79%; S 10.82%

**Physical Description:** Cryst. (EtOH aq.)

**Melting Point:** Mp 130-131°

**Optical Rotation:**  $[\alpha]$