



>>Entry Name: Undecanedioic acid, 9CI

CAS Registry Number: 1852-04-6

HOOC(CH<sub>2</sub>)<sub>9</sub>COOH

Molecular Formula: C<sub>11</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 216.277

Accurate Mass: 216.13616

Percentage Composition: C 61.09%; H 9.32%; O 29.59%

Biological Source: Isol. from leaves and stems of *Anthyllis sericea*

Use/Importance: Monomer for polyamides

Physical Description: Cryst. (CHCl<sub>3</sub>/C<sub>6</sub>H<sub>6</sub> or H<sub>2</sub>O)

Melting Point: Mp 111-112.5°

Aldrich: 17796-2

Fluka: 94040

>>Derivative: Mono-Me ester

CAS Registry Number: 3927-60-4

Molecular Formula: C<sub>12</sub>H<sub>22</sub>O<sub>4</sub>

Molecular Weight: 230.303

Accurate Mass: 230.15181

Percentage Composition: C 62.58%; H 9.63%; O 27.79%

Melting Point: Mp 44-46°

Boiling Point: Bp<sub>2</sub> 165-168°

>>Derivative: Di-Me ester

CAS Registry Number: 4567-98-0

Molecular Formula: C<sub>13</sub>H<sub>24</sub>O<sub>4</sub>

Molecular Weight: 244.33

Accurate Mass: 244.16746

Percentage Composition: C 63.91%; H 9.90%; O 26.19%

Melting Point: Mp 17°

Boiling Point: Bp<sub>2</sub> 123-124.5°

Fluka: 94042

Rare Chemicals Library: S57135-0

>>Derivative: Mono-Et ester

CAS Registry Number: 73427-63-1

Molecular Formula: C<sub>13</sub>H<sub>24</sub>O<sub>4</sub>

Molecular Weight: 244.33

Accurate Mass: 244.16746

Percentage Composition: C 63.91%; H 9.90%; O 26.19%

Melting Point: Mp 43-44°

Boiling Point: Bp<sub>3</sub> 176-178°

>>Derivative: Di-Et ester

CAS Registry Number: 22543-29-9

Molecular Formula: C<sub>15</sub>H<sub>28</sub>O<sub>4</sub>

Molecular Weight: 272.384

Accurate Mass: 272.19876

Percentage Composition: C 66.14%; H 10.36%; O 23.50%

Boiling Point: Bp<sub>6</sub> 155-158°. Bp<sub>2</sub> 146°

>>Derivative: Dichloride

CAS Registry Number: 45165-01-3

Molecular Formula: C<sub>11</sub>H<sub>18</sub>Cl<sub>2</sub>O<sub>2</sub>

Molecular Weight: 253.167

Accurate Mass: 252.068384

Percentage Composition: C 52.19%; H 7.17%; Cl 28.01%; O 12.64%

Boiling Point: Bp<sub>22</sub> 191-192°

References: