



**Synonym(s):** Monomethyl tartrate

**CAS Registry Number:** 3333-46-8

**Molecular Formula:**  $C_5H_8O_6$

**Molecular Weight:** 164.115

**Accurate Mass:** 164.03209

**Percentage Composition:** C 36.59%; H 4.91%; O 58.49%

**Physical Description:** Prisms ( $H_2O$ )

**Melting Point:** Mp 76°

**Optical Rotation:**  $[\alpha]_D^{18} +18.7$  ( $H_2O$ )

>>**Derivative:** Di-Me ester

**Synonym(s):** Dimethyl tartrate

**CAS Registry Number:** 608-68-4

**Molecular Formula:**  $C_6H_{10}O_6$

**Molecular Weight:** 178.141

**Accurate Mass:** 178.04774

**Percentage Composition:** C 40.45%; H 5.66%; O 53.89%

**Use/Importance:** Used in synth. of optically active 2-bromo ketones

**Melting Point:** Mp 48°. Mp 62° (dimorph.)

**Aldrich:** 16345-7

**Fluka:** 95365

**Sigma:** T4390

>>**Derivative:** Mono-Et ester

**Synonym(s):** Monoethyl tartrate

**CAS Registry Number:** 608-89-9

**Molecular Formula:**  $C_6H_{10}O_6$

**Molecular Weight:** 178.141

**Accurate Mass:** 178.04774

**Percentage Composition:** C 40.45%; H 5.66%; O 53.89%

**Physical Description:** Prisms (EtOH)

**Melting Point:** Mp 90 approx.°

**Optical Rotation:**  $[\alpha]_D +21.8$  (c, 2.2 in  $H_2O$ )

>>**Derivative:** Di-Et ester

**Synonym(s):** Diethyl tartrate

**CAS Registry Number:** 87-91-2

**Molecular Formula:**  $C_8H_{14}O_6$

**Molecular Weight:** 206.195

**Accurate Mass:** 206.07904

**Percentage Composition:** C 46.60%; H 6.84%; O 46.56%

**Use/Importance:** Flavouring ingredient

**Melting Point:** Mp 17°

**Boiling Point:** Bp<sub>15</sub> 155-156°

**Optical Rotation:**  $[\alpha]_D^{20} +7.5$  ( $CHCl_3$ )

**Density:**  $d_4^{20} 1.2$

**Refractive Index:**  $n_D^{20} 1.4476$

**Hazard & Toxicity:** Fl. p. 93°

**Aldrich:** 15684-1

**Fluka:** 95355

**Sigma:** T9637