



>>Entry Name: 5-Aminopentanoic acid, 9Cl

**CAS Registry Number:** 660-88-8

$\text{H}_2\text{NCH}_2(\text{CH}_2)_3\text{COOH}$

**Molecular Formula:**  $\text{C}_5\text{H}_{11}\text{NO}_2$

**Molecular Weight:** 117.147

**Accurate Mass:** 117.078979

**Percentage Composition:** C 51.26%; H 9.46%; N 11.96%; O 27.31%

**Physical Description:** Leaflets

**Melting Point:** Mp 157-158 dec.°

**pKa Value:**  $\text{p}K_{\text{a}1}$  4.26;  $\text{p}K_{\text{a}2}$  10.71 (25°, 0.5M NaCl)

**Other Data:** On melting, forms lactam, 2-Piperidinone [DFN10-D](#)

**Aldrich:** 12318-8

**Fluka:** 9650

**Sigma:** A5800

>>Derivative: Hydrochloride

**CAS Registry Number:** 627-95-2

**Melting Point:** Mp 95-97°

**Aldrich:** 19433-6

**Sigma:** A4130

>>Derivative: Me ester

**CAS Registry Number:** 29840-56-0

**Molecular Formula:**  $\text{C}_6\text{H}_{13}\text{NO}_2$

**Molecular Weight:** 131.174

**Accurate Mass:** 131.094629

**Percentage Composition:** C 54.94%; H 9.99%; N 10.68%; O 24.39%

**Physical Description:** Solid (as hydrochloride)

**Melting Point:** Mp 138° (hydrochloride)

>>Derivative: Et ester

**CAS Registry Number:** 29840-57-1

**Molecular Formula:**  $\text{C}_7\text{H}_{15}\text{NO}_2$

**Molecular Weight:** 145.201

**Accurate Mass:** 145.110279

**Percentage Composition:** C 57.90%; H 10.41%; N 9.65%; O 22.04%

**Melting Point:** Mp 77-80° (as hydrochloride)

**pKa Value:**  $\text{p}K_{\text{a}1}$  10.15 (25°)

>>Derivative: *N*-Benzoyl, Et ester

**Molecular Formula:**  $\text{C}_{14}\text{H}_{19}\text{NO}_3$

**Molecular Weight:** 249.309

**Accurate Mass:** 249.136494

**Percentage Composition:** C 67.45%; H 7.68%; N 5.62%; O 19.25%

**Physical Description:** Cryst.

**Melting Point:** Mp 36°

>>Derivative: *N*-Benzoyl, amide

**Molecular Formula:**  $\text{C}_{12}\text{H}_{16}\text{N}_2\text{O}_2$

**Molecular Weight:** 220.271

**Accurate Mass:** 220.121178

**Percentage Composition:** C 65.43%; H 7.32%; N 12.72%; O 14.53%

**Physical Description:** Cryst. ( $\text{H}_2\text{O}$ )

**Melting Point:** Mp 181.5°

>>Derivative: Lactam