



LKT Laboratories, Inc.

n-Valeric Acid

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Product Information

Product ID V0144

CAS No. 109-52-4

Chemical Name

Synonym Pentanoic acid

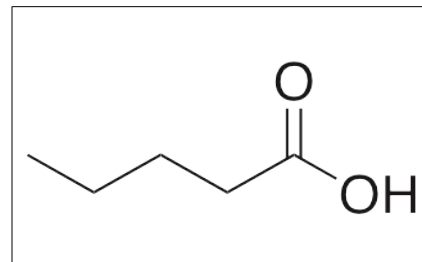
Formula $C_5H_{10}O_2$

Formula Wt. 102.13

Melting Point

Purity $\geq 99\%$

Solubility 50mg/ml in water



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
V0144	10 ml	\$53.40
V0144	50 ml	\$66.90
V0144	100 ml	\$86.90

Store Temp Ambient

Ship Temp Ambient

Description n-Valeric acid is a low molecular weight carboxylic acid with a structure similar to γ -hydroxybutyrate (GHB) and γ -aminobutyric acid (GABA). This compound is found in *Valeriana officinalis* and is often used in the synthesis of esters. n-Valeric acid may also be produced by intestinal microflora and induces expression of Epstein-Barr virus-associated early antigen and viral capsid antigen in EBV-carrying human lymphoblastoid cells. Additionally, the α -keto- β -methyl derivative of n-valeric acid exhibits antioxidative activity, decreasing reactive oxygen species and lactate dehydrogenase in microglial cells under hypoxic or H2O2-stress-induced conditions. n-Valeric acid may inhibit histone deacetylases (HDAC).

References Huang HM, Ou HC, Chen HL, et al. Protective effect of alpha-keto-beta-methyl-n-valeric acid on BV-2 microglia under hypoxia or oxidative stress. *Ann N Y Acad Sci.* 2005 May;1042:272-8. PMID: 15965072.

Huang HM, Zhang H, Ou HC, et al. alpha-keto-beta-methyl-n-valeric acid diminishes reactive oxygen species and alters endoplasmic reticulum Ca^{2+} stores. *Free Radic Biol Med.* 2004 Dec 1;37(11):1779-89. PMID: 15528037.

Midtvedt AC, Midtvedt T. Production of short chain fatty acids by the intestinal microflora during the first 2 years of human life. *J Pediatr Gastroenterol Nutr.* 1992 Nov;15(4):395-403. PMID: 1469519.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.