

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Product Specifications*

<b>Catalogue Number</b>	46573
<b>Product</b>	<b>Calcium 4-methyl-2-oxovalerate</b> $\alpha$ -Ketoleucine calcium salt 4-Methyl-2-oxovaleric acid calcium salt
<b>CAS Number</b>	51828-95-6
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>18</sub> CaO <sub>6</sub> •H <sub>2</sub> O
<b>Molecular Weight</b>	316.36
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<b>Appearance</b>	White or almost white crystalline powder
<b>Solubility</b>	Slightly soluble in water
<b>Odor</b>	Characteristic
<b>Anion</b>	Chloride : $\leq$ 0.02%
<b>Cation</b>	Calcium : 13.22 - 13.70% (Calculated on anhydrous basis)
<b>Water Content (Karl Fisher)</b>	$\leq$ 12%
<b>pH</b>	5.0 - 7.5
<b>Yeast and Mold</b>	$\leq$ 100 cfu/g
<b>Infrared Spectrum</b>	Conforms to structure
<b>Residual Solvents</b>	Methanol : $\leq$ 3000 ppm
<b>E. Coli</b>	Should be absent
<b>Microbial Count</b>	$\leq$ 1000 cfu/g (TPC)
<b>Salmonella</b>	Should be absent
<b>Related Substances</b>	Any single impurity : $\leq$ 0.50% Total impurity : 1%
<b>Assay (anhydrous basis)</b>	98.5 - 102.0%
<b>Storage</b>	Store at 2 - 8 °C

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**For Laboratory Use Only**