

Manufacturer's Name: Natural Extracts Australia Pty Ltd

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ZEOLITE CHEMICAL ANALYSIS

[testing analysis carried out by the CSIRO]

<i>Mineral Content</i>	<i>%</i>	<i>Selected trace elements occur in minor quantities</i>	<i>Parts Per Million</i>
<i>SiO₂ Silicon Dioxide</i>	<i>71.81</i>	<i>Ba Barium</i>	<i>10</i>
<i>Al₂O₃ Aluminium Oxide</i>	<i>12.10</i>	<i>Cr Chromium</i>	<i>35</i>
<i>Fe₂O₃ Iron Oxide</i>	<i>1.14</i>	<i>Co Cobalt</i>	<i>12</i>
<i>Na₂O Sodium Oxide</i>	<i>2.33</i>	<i>Cu Copper</i>	<i>19</i>
<i>K₂O Potassium Oxide</i>	<i>0.90</i>	<i>Hg Mercury</i>	<i><1</i>
<i>CaO Calcium Oxide</i>	<i>2.60</i>	<i>P Phosphorus</i>	<i>187</i>
<i>MgO Magnesium Oxide</i>	<i>0.65</i>	<i>Pb Lead</i>	<i><1</i>
<i>TiO₂ Titanium Oxide</i>	<i>0.22</i>	<i>Se Selenium</i>	<i><1</i>
<i>MnO Manganese Oxide</i>	<i>0.03</i>	<i>Zn Zinc</i>	<i>33</i>
<i>P₂O₅ Phosphorus Oxide</i>	<i><.01</i>		
<i>SrO Strontium Oxide</i>	<i>0.22</i>		
<i>Loss on Ignition</i>	<i>7.77</i>		

EMPIRICAL FORMULA $(Ca, Fe, K, Mg, Na)_{3-6}Si_{30}Al_6O_{72} \cdot 24H_2O$

CHEMICAL ABSTRACTS SERVICE (CAS) NUMBER for clinoptilolite is **12173-10-3**

PHYSICAL PROPERTIES

<i>Particle Specific Gravity</i>	<i>~2.3T/m3</i>
<i>Ambient Moisture</i>	<i>Nominal <5%</i>
<i>Hardness (Mohr scale of hardness)</i>	<i>~5.0</i>
<i>Cation Exchange Capacity (CEC) meq/100g</i>	<i>147 average</i>
<i>Form:</i>	<i>Fine pink powder</i>
<i>Stability</i>	<i>Excellent</i>

MINEROLOGY

<i>Minerals Present</i>	
<i>Major</i>	<i>Clinoptilolite (w% of the total Zeolite content) 84%</i>
	<i>Mordenite (w% of the total Zeolite content) 14%</i>
<i>Others</i>	
<i>Minor Trace</i>	<i>Quartz, Feldspar, Montmorillonite 2%</i>