

Manufacturer's Name: Natural Extracts Australia Pty Ltd

ABN: 28 127-545-742

Address Administration: P.O. Box 308 Hornsby 2077 NSW Australia

Contact Details: Telephone: (61-2) 9844 5432 Fax: (61-2) 9844 5463

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ZEOLITE CHEMICAL ANALYSIS

[testing analysis carried out by the CSIRO]

Mineral Content	%	Selected trace elements occur in minor quantities	Parts Per Million
SiO ₂ Silicon Dioxide	71.81	Ba Barium	10
Al ₂ O ₃ Aluminium Oxide	12.10	Co Cobalt	12
Fe ₂ O ₃ Iron Oxide	1.14	Cr Chromium	35
Na ₂ O Sodium Oxide	2.33	Se Selenium	<1
K ₂ O Potassium Oxide	0.90	Cu Copper	19
CaO Calcium Oxide	2.60	Zn Zinc	33
MgO Magnesium Oxide	0.65	P Phosphorus	187
TiO ₂ Titanium Oxide	0.22	Hg Mercury	
MnO Manganese Oxide	0.03	Pb Lead	
P ₂ O ₅ Phosphorus Oxide	<.01		
SrO Strontium Oxide	0.22		
Loss on Ignition	7.77		

EMPIRICAL FORMULA (Ca, Fe, K, Mg, Na)₃₋₆Si₃₀Al₆O₇₂.24H₂O

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

PHYSICAL PROPERTIES

Particle Specific Gravity	~2.3T/m ³
Ambient Moisture	Nominal <5%
Hardness (Mohr scale of hardness)	~5.0
Cation Exchange Capacity (CEC) meq/100g	147 average
Form:	Fine pink powder
Stability	Excellent

MINEROLOGY

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