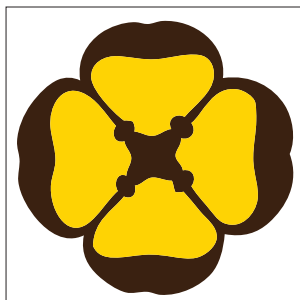


# ESSENTIAL OILS OF TASMANIA - TECHNICAL DATA

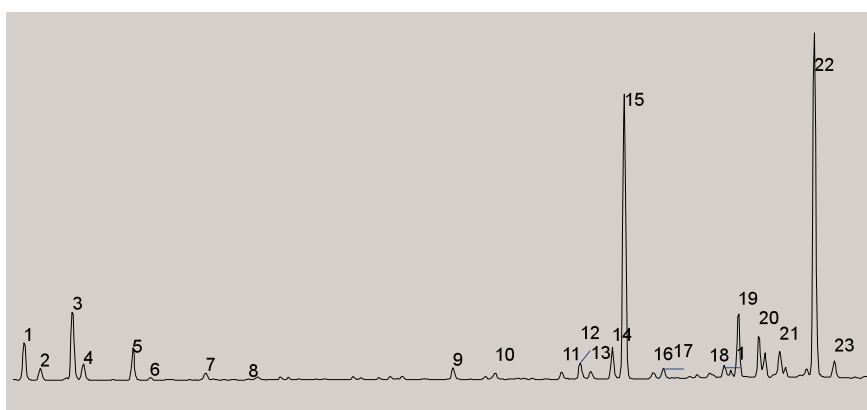
## TASMANIAN BORONIA



### CONCRETE AND ABSOLUTE



<b>Name:</b>	Boronia – Concrete and Absolute																								
<b>CAS Number:</b>	91771-36-7																								
<b>FEMA Number:</b>	2167																								
<b>UN (concrete only):</b>	1197																								
<b>Product Description:</b>	Both concrete and absolute are extracted from the open flowers of the Australian native <i>Boronia megastigma</i> (Nees). At room temperature the concrete is an orange/brown waxy solid, with the absolute an orange/yellow viscous liquid.																								
<b>Extraction:</b>	The concrete is produced by non-chlorinated solvent extraction from the open flowers. Traditional alcohol extraction of the concrete produces the absolute. Flowers are mechanically harvested between August and October each year.																								
<b>Production Areas:</b>	Boronia is grown in a range of locations throughout Tasmania.																								
<b>Availability:</b>	Subject to request.																								
<b>Aroma:</b>	Both concrete and absolute have an intensely rich, flowery aroma, initially combining the natural green freshness of cassis, with the character of ripening hay. It develops the exotic fruit undertones of yellow freesias with a somewhat woody dry-out.																								
<b>Chemical Composition:</b>	<p>As determined by gas chromatography, a typical chromatogram of the concrete is shown below:</p> <table border="0"> <tr> <td>1 - alpha pinene</td> <td>9 - unknown cis-3 hexenyl ester</td> <td>16 - bicyclogermacrene</td> </tr> <tr> <td>2 - camphene</td> <td>10 - 2,6-dimethyl, 1-2-7 octadiene</td> <td>17 - sesquicineole</td> </tr> <tr> <td>3 - sabinene</td> <td>1,6 diol</td> <td>18 - spathulenol</td> </tr> <tr> <td>4 - beta pinene</td> <td>11 - caryophyllene</td> <td>19 - dodecyl acetate</td> </tr> <tr> <td>5 - delta-3-carene</td> <td>12 - dihydro beta ionone</td> <td>20 - methyl jasmonate isomer</td> </tr> <tr> <td>6 - limonene and beta-phellandrene</td> <td>13 - dihydro beta ionol</td> <td>21 - methyl iso jasmonate</td> </tr> <tr> <td>7 - alpha terpinene</td> <td>14 - dodecanol</td> <td>22 - heptadec-8-ene</td> </tr> <tr> <td>8 - ethyl octanoate</td> <td>15 - beta-ionone</td> <td>23 - methyl hydroxy cinnamate</td> </tr> </table>	1 - alpha pinene	9 - unknown cis-3 hexenyl ester	16 - bicyclogermacrene	2 - camphene	10 - 2,6-dimethyl, 1-2-7 octadiene	17 - sesquicineole	3 - sabinene	1,6 diol	18 - spathulenol	4 - beta pinene	11 - caryophyllene	19 - dodecyl acetate	5 - delta-3-carene	12 - dihydro beta ionone	20 - methyl jasmonate isomer	6 - limonene and beta-phellandrene	13 - dihydro beta ionol	21 - methyl iso jasmonate	7 - alpha terpinene	14 - dodecanol	22 - heptadec-8-ene	8 - ethyl octanoate	15 - beta-ionone	23 - methyl hydroxy cinnamate
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<b>Storage:</b>	Very stable when stored in light-proof containers below 10°C for 3 years.																								
<b>Uses:</b>	Because of its persistence and intensity, the absolute is valued as an addition to quality perfumes. Both concrete and absolute contain beta-ionone, and other aroma compounds, which have excellent flavour enhancement characteristics.																								



#### Essential Oils of Tasmania Pty Ltd

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