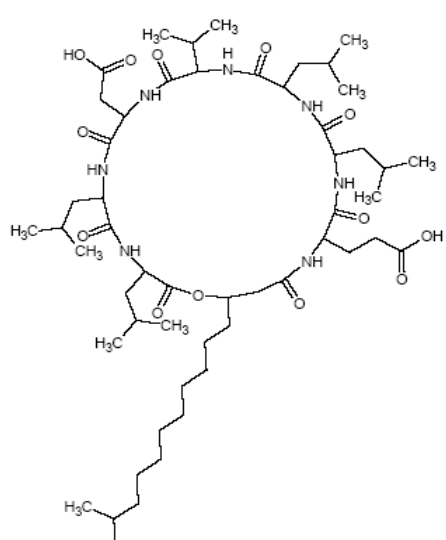


## Specification Sheet - SURFACTIN

<b>Chemical name:</b>	Surfactin, from <i>Bacillus subtilis</i>
<b>IUPAC name:</b>	3-[(1R,4S,7R,10S,13S)-13-(carboxymethyl)-4,7,16,19-tetrakis(2-methylpropyl)-22-(10-methylundecyl)-2,5,8,11,14,17,20,24-octa-oxo-10-propan-2-yl-21-oxa-3,6,9,12,15,18,25-heptazacyclopentacos-1-yl]propanoic acid

<b>CAS number:</b>	24730-31-2	
<b>Molecular formula:</b>	$C_{53}H_{93}N_7O_{13}$ (formula of surfactin iso C15)	
<b>Structural formula:</b>	Surfactin (structure of surfactin iso C15)	
<b>Molecular mass:</b>	1035.68 g/mol	
<b>Chemical purity:</b>	≥98% (HPLC-MS)	

<b>Appearance (form):</b>	Powder						
<b>Appearance (color):</b>	White to faint yellow						
<b>Solubility (solvent):</b>	Organic solvents (MeOH, EtOH, DMSO 0.1, ...)						
<b>Solubility (at 1g/L):</b>	<table style="margin-left: 20px;"> <tr> <td>MeOH:</td> <td>100%</td> </tr> <tr> <td>DMSO 0.1%:</td> <td>93%</td> </tr> <tr> <td>EtOH:</td> <td>100%</td> </tr> </table>	MeOH:	100%	DMSO 0.1%:	93%	EtOH:	100%
MeOH:	100%						
DMSO 0.1%:	93%						
EtOH:	100%						
<b>Solubility (turbidity):</b>	NA						
<b>Solubility (color)</b>	Colourless						
<b>Melting point:</b>	720.8°C (flash point)						
<b>Boiling point:</b>	1268.3°C at 760 mm Hg						

### **Storage conditions:**

*Solid storage: At room temperature. Keep away from light, in a container tightly closed in a dry and well-ventilated place.*

*Liquid storage: Store in +2 - +8°C. Keep container tightly closed in a dry and well-ventilated place.*