

**American International Chemical, Inc.**

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

**SPECIFICATION SHEET****TOCOTRIENOL CONCENTRATE DVL 95**

Natural Mixed Tocotrienol / Tocopherol Concentrate (min 95%)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
TTLDC9	1799	6829-55-6	March 31, 2011	SW	No. 2	CDS

<b>CHARACTERISTICS:</b>	Tocotrienol Concentrate DVL 95 is yellow, brownish viscous oil containing naturally occurring mixture of Tocotrienols and Tocopherols (minimum 95% by weight). It is extracted from the fruits of palm trees ( <i>Elaeis guineensis</i> ). It contains predominantly d- $\alpha$ -Tocotrienol, d- $\gamma$ -Tocotrienol, d- $\delta$ -Tocotrienol and d- $\alpha$ -Tocopherol. It is soluble in oils and fats, insoluble in water and partially soluble in ethanol. It has a mild and characteristic odor.
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Typical Chemical Properties	Specifications	Test Method
Total Tocotrienol, Tocomonoenol and Tocopherol	95.0% min	HPLC
Total Tocotrienols	65.0% min	HPLC
d- $\alpha$ -Tocotrienol (typical content)	20.4%	HPLC
d- $\beta$ - Tocotrienol (typical content)	3.1%	HPLC
d- $\gamma$ - Tocotrienol (typical content)	32.2%	HPLC
d- $\delta$ - Tocotrienol (typical content)	13.1%	HPLC
d- $\alpha$ - Tocomonoenol (typical content)	3.9%	HPLC
d- $\alpha$ -Tocopherol (typical content)	24.0%	HPLC
Moisture	0.5% max	AOCS
Peroxide value	5.0 meq/kg max	AOCS
Acid value	5.0 mg KOH/g max	AOCS
Heavy metals (as Pb)	2 ppm max	AOCS
Total plate count	1000 cfu/g max	USP
Yeast and mold	100 cfu/g max	USP
Escherichia coli	Absent	USP
Salmonella	Absent	USP

<b>PACKAGING:</b>	Available in 5 kg and 180 kgs drums under nitrogen blanketing. Other types of packaging are available upon request.
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<b>APPLICATIONS:</b>	Product is intended for use as a source of mixed Tocotrienols and Tocopherols in dietary supplements as nutrients in single entity and multi-vitamin soft gelatin capsules. It is also intended for use in cosmetic formulations.
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<b>STORAGE INSTRUCTIONS AND SHELF LIFE:</b>	Store in light proof, airtight containers, in a cool, dry place and away from light. Shelf life is 24 months when stored under recommended storage conditions listed above, in unopened original containers.
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<b>OTHER:</b>	Product is made in Singapore. Contains mono, di and tri-glycerides, which are originally present in the product. This is a non-GMO, Halal and Kosher certified product (K LBD).
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