

# Amitose VC series

New moisturizing vitamin C derivatives "Glyceryl ascorbate series"

- SEIWA original ingredient developed by combining vitamin C and glycerin
- High stability enables various formulae containing VC derivatives
- Amitose VC series has each specific efficacy in addition to VC properties



# Amitose VC series Product lineup

New moisturizing vitamin C derivatives "Glyceryl ascorbate series" created by the fusion of vitamin C and glycerin

Type		Basic type			Advanced type		
Product name		<i>Amitose DGA</i>	<i>Amitose 3GA</i>	<i>Amitose 2GA</i>	<i>Amitose HGA</i>	<i>Amitose MGA</i>	<i>Amitose 3LGA</i>
Advantage		<ul style="list-style-type: none"> <li>• Easy to be formulated in gel and cream formulae</li> <li>• Rich moisturizing by stratum corneum barrier</li> </ul>	<ul style="list-style-type: none"> <li>• Cost benefit</li> <li>• Antioxidant effect</li> </ul>	<ul style="list-style-type: none"> <li>• Comfortable sensory texture</li> <li>• Long-term stability</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent skin lightening effect</li> <li>• Interfering of melanin transport</li> <li>• Melanin degradation by autophagy</li> </ul>	<ul style="list-style-type: none"> <li>• Oil in Water type emulsifying ability</li> <li>• Antibacterial activity* *Anti-acne activity etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Improvement of sensitive skin</li> <li>• Activating ceramide synthesis</li> <li>• Anti-pollution</li> </ul>
Product information	Chemical structure	MW: 324	MW: 250	MW: 250	MW: 334	MW: 446	MW: 419
	INCI name	Bis-Glyceryl Ascorbate, Glycerin, Water	3-Glyceryl Ascorbate, Glycerin, Water	Glyceryl Ascorbate	Hexyl 3-Glyceryl Ascorbate, Glycerin, Water	Myristyl 3-Glyceryl Ascorbate, Butylene Glycol	3-Laurylglyceryl Ascorbate, Butylene Glycol
	Concentration of active component	50%	30%	100%	20%	10%	10%
	Appearance	Liquid	Liquid	Powder	Liquid	Liquid	Liquid
	Storage condition	Keep refrigerated	Keep refrigerated	Room temperature	Keep refrigerated	Keep refrigerated	Room temperature
	Physical property	Water-soluble	Water-soluble	Water-soluble	Water-soluble	Amphiphilic	Amphiphilic
		Non-ionic	Weak-anionic	Anionic	Non-ionic	Non-ionic	Weak-anionic
Suggested pH condition	3-6	2-5	6-9	3-6	3-6	3-6	
Applications	Skin toner	★★★	★★★	★★★	★★★	★	★★
	Cream	★★★	★★	★	★★★	★★★	★★★
	Gel	★★★	★★	★	★★★	★★	★★
	Vitamin C-rich serum	★★★	★★★	★★	★	★	★
Features	Suppression of melanin production	★★	★★	★★	★★★	★★★	★★★
	Enhancement of collagen production	★	★	★	★	★★	★★
	Intracellular antioxidant effect	★	★★	★	★	★	★★★
	Activation of ceramide synthesis*	—	—	—	—	—	★★★
	Moisturizing effect	★★★	★★	★★	★★	★★	★★★
	Antibacterial effect	—	—	—	★	★★★	★

[Applications] ★ - ★★★; More ★ marks indicate that it is more suitable for each type of formulae.

[Features] ★ - ★★★; More ★ marks indicate that it has more excellent effects. "—" mark indicates that it has no data or effect.

\* Activation of ceramide synthesis thanks to scavenging ROS which suppresses the production of ceramide synthetase by enhancing intracellular anti-oxidant system.

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