

Agriculture Adjuvants



 **Vantage**

ADJUVANTS are inert ingredients that are added to pesticide formulations which improve the effectiveness of the active ingredients in pesticides, herbicides, insecticides and fungicides formulations. They enhance spreading, waxy cuticle penetration and water resistance as well as modifying viscosity, droplet size, tackiness and emulsion stability. The United States Environmental Protection Agency (US EPA) is responsible for the approval of adjuvants for their use in food or non-food applications in accordance to 40 CFR 180.

Vantage Specialties offers a diverse line of ADJUCAL™ adjuvants including methyl esters, PEGs, PEG esters, polysorbates, sorbitan esters, vegetable oils and ethoxylates as well as EO/PO block copolymers which have been approved by the US EPA.

Type	Product Name	CAS Number	Form	Specific Gravity (@ 25 °C)	Flash Point* (°C)	Pour Point (°C)	HLB
Methyl esters	ADJUCAL ME-12	67762-38-3	Liquid	0.88	190	- 15	—
	ADJUCAL ME-30	67784-80-9	Liquid	0.88	182	- 6	—
Polyethylene Glycol Esters	ADJUCAL EGL-40	9004-81-3	Liquid	1.01	> 175	—	13
	ADJUCAL EGL-42	9005-02-1	Liquid	0.98	> 175	18	10
	ADJUCAL EGO-40	9004-96-0	Liquid	1.01	> 175	—	12
	ADJUCAL EGO-42	9005-07-6	Liquid	0.99	> 175	6	8
Polysorbates	ADJUCAL PS-20	9005-64-5	Liquid	1.10	> 100	—	17
	ADJUCAL PS-60	9005-67-8	Semi-solid	1.07	> 100	25	15
	ADJUCAL PS-65	9005-71-4	Solid	1.10	> 100	32	11
	ADJUCAL PS-80	9005-65-6	Liquid	1.04	> 100	- 14	15
	ADJUCAL PS-81	9005-65-6	Liquid	1.02	> 100	- 17	10
	ADJUCAL PS-85	9005-70-3	Liquid	1.02	> 200	< - 20	11
Sorbitan Esters	ADJUCAL SL-10	1338-39-2	Liquid	1.00	> 100	13	9
	ADJUCAL SO-10	1338-43-8	Liquid	0.98	> 100	- 18	5
	ADJUCAL SO-15	8007-43-0	Liquid	1.00	> 100	- 12	4
	ADJUCAL SO-30	26266-58-0	Liquid	1.00	> 200	- 37	2
Castor Oil Ethoxylates	ADJUCAL CO-05	61791-12-6	Liquid	0.99	> 175	- 26	4
	ADJUCAL CO-25	61791-12-6	Liquid	1.04	> 175	5	11
	ADJUCAL CO-40	61791-12-6	Liquid	1.06	> 175	17	14
Vegetable Oils	ADJUCAL CAN-060	120962-03-0	Liquid	0.92	> 100 (PMCC)	- 12	—
	ADJUCAL SOY-100	8001-22-7	Liquid	0.92	337	- 7	—
Block Copolymers	ADJUCAL EPP-181	9003-11-6	Liquid	1.02	> 175	—	3
	ADJUCAL EPM-172	9003-11-6	Liquid	1.03	> 175	- 23	4
	ADJUCAL EPM-252	9003-11-6	Liquid	1.03	> 175	- 12	3
	ADJUCAL EPM-174	9003-11-6	Liquid	1.05	> 175	—	7
	ADJUCAL EPP-331	9003-11-6	Liquid	1.02	> 200	- 24	1
Polyethylene Glycols	ADJUCAL EG-04	25322-68-3	Liquid	1.12	171	—	20
	ADJUCAL EG-06	25322-68-3	Liquid	1.12	196	- 11	20
	ADJUCAL EG-08	25322-68-3	Liquid	1.13	224	6	20
	ADJUCAL EG-12	25322-68-3	Liquid	1.13	224	6	20
	ADJUCAL EG-32	25322-68-3	Liquid	1.21	226	44	20

“Flashpoint determined by Cleveland open cup method unless noted otherwise. Pensky-Martens closed cup (PMCC) method.”



Type	Product Name	CAS Number	40 CFR	40 CFR	40 CFR	40 CFR	40 CFR	Non-Food
			180.910	180.930	180.940	180.950	180.960	Only
Methyl esters	ADJUCAL ME-12	67762-38-3					√	
	ADJUCAL ME-30	67784-80-9	√					
Polyethylene Glycol Esters	ADJUCAL EGL-40	9004-81-3	√	√				
	ADJUCAL EGL-42	9005-02-1	√	√				
	ADJUCAL EGO-40	9004-96-0	√	√				
	ADJUCAL EGO-42	9005-07-6	√	√				
Polysorbates	ADJUCAL PS-20	9005-64-5	√	√				
	ADJUCAL PS-60	9005-67-8	√	√				
	ADJUCAL PS-65	9005-71-4	√	√				
	ADJUCAL PS-80	9005-65-6	√	√	√			
	ADJUCAL PS-81	9005-65-6	√	√	√			
	ADJUCAL PS-85	9005-70-3	√	√				
Sorbitan Esters	ADJUCAL SL-10	1338-39-2	√	√				
	ADJUCAL SO-10	1338-43-8	√	√				
	ADJUCAL SO-15	8007-43-0	√	√				
	ADJUCAL SO-30	26266-58-0	√	√				
Castor Oil Ethoxylates	ADJUCAL CO-05	61791-12-6					√	
	ADJUCAL CO-25	61791-12-6					√	
	ADJUCAL CO-40	61791-12-6					√	
Vegetable Oils	ADJUCAL CAN-060	120962-03-0					√	
	ADJUCAL SOY-100	8001-22-7				√		
Block Copolymers	ADJUCAL EPP-181	9003-11-6					√	
	ADJUCAL EPM-172	9003-11-6					√	
	ADJUCAL EPM-252	9003-11-6					√	
	ADJUCAL EPM-174	9003-11-6					√	
	ADJUCAL EPP-331	9003-11-6					√	
Polyethylene Glycols	ADJUCAL EG-04	25322-68-3						√
	ADJUCAL EG-06	25322-68-3						√
	ADJUCAL EG-08	25322-68-3						√
	ADJUCAL EG-12	25322-68-3						√
	ADJUCAL EG-32	25322-68-3						√

ABOUT US

Vantage Specialties, formerly Lambent Technologies, is a manufacturer of high-quality, naturally-derived specialty chemicals and intermediates for a broad range of industrial and consumer applications. Vantage's strengths are in surfactants, emulsifiers, performance additives, and other specialty blends synthesized using esterification and alkoxylation chemistries.

In recent years, Vantage has optimized its portfolio of oleochemical derivatives and specialty silicones to better serve customers. Vantage's strategy is to expand its portfolio and application knowledge in each key market to provide its customers with innovative products and technical support.

Vantage addresses unmet needs in the marketplace by delivering innovative as well as industry standard solutions. Strategically located 35 miles north of Chicago, Vantage offers prompt service and turnaround time for the US market. The multi-functional manufacturing facility, complete with state-of-the-art process and lab equipment, has an outstanding safety record along with many widely recognized quality certifications including cGMP, ISO 9001:2008, FSSC 22000, Kosher and Kosher for Passover (OU), USP/NF, Halal, and food grade certified production.

VALUES & VISION

Our long term success will be the result of a culture that places a high value on customer responsiveness. We strive to be the preferred supplier with easy-to-use customer interface systems and a human face and voice that responds on our customers' timetables. We define ourselves as a customer-centric specialty chemical company. This means that we seek out our customer's needs and focus on helping them achieve their goals while striving to create an excellent customer experience with each interaction.

Our values are built on a foundation of environmental responsibility, an intense focus on safety for employees, contractors and visitors to our sites, and ethical business practices. We endeavor at all times to treat people with respect. We operate with a decentralized management structure, recognizing that often the best decisions are made by the employees closest to the issues who have responsibility, authority, and accountability.

VANTAGE VALUE PROPOSITION

- **We are a customer-centric specialty chemical manufacturer.**
- **We seek out the needs of our customers and focus on helping them achieve their goals.**
- **We strive to create an excellent customer experience with every interaction.**
- **We accommodate customer requests whenever feasible.**
- **We communicate effectively.**



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