

Sorbitan esters and ethoxylates

Product range Kosteran™, Kotilen™	Chemical description	Form at 25 °C	CAS-number	Average molecular weight [g/mole] (1)	Active matter [%]	HLB value	Detergent Regulation	Detergent, H&H cleaner	Textile auxiliaries	Lubricants	Technical emulsifiers	Polymerisation & plastics	Coatings & concrete	Agro chemicals
Kosteran-L/1 **	Sorbitan monolaurate	liquid	1338-39-2	340	>99.0	8.6	☐		✓		✓		✓	✓
Kosteran-P/1 *, **	Sorbitan monopalmitate	pellets	26266-57-9	390	>98.5	6.7	☐				✓		✓	
Kosteran-S/1 G **	Sorbitan monostearate	pellets	1338-41-6	410	>98.5	4.7	☐		✓		✓		✓	
Kosteran-S/3 G	Sorbitan tristearate	pellets	26658-19-5	930	>99.0	2.1			✓		✓		✓	
Kosteran-I/1	Sorbitan isostearate	liquid	54392-26-6	380	>99.0	4.3							✓	
Kosteran-I/3	Sorbitan triisostearate	liquid	54392-27-7	1000	>99.0									
Kosteran-O/1 AN	Sorbitan monooleate	liquid	1338-43-8	360	>99.0	4.3	☐	✓	✓	✓			✓	✓
Kosteran-O/1 VL *, **	Sorbitan monooleate	liquid	1338-43-8	360	>99.0	4.3	☐	✓	✓	✓			✓	✓
Kosteran-SQ/0 VH	Sorbitan sesquioleate	liquid	8007-43-0	550	>99.0	4.5							✓	✓
Kosteran-O/3 VH **	Sorbitan trioleate	liquid	26266-58-0	940	>99.0	1.8				✓			✓	✓
Kosteran-T/1	Sorbitan monotallate	liquid	61791-48-8	380	>99.0	4.3			✓	✓			✓	
Kotilen-L/1 *, **	POE (20) Sorbitan laurate	liquid	9005-64-5	1200	>97.0	16.7		✓	✓				✓	✓
Kotilen-P/1 **	POE (20) Sorbitan palmitate	pasty	9005-66-7	1300	>97.0	15.6							✓	
Kotilen-S/1 **	POE (20) Sorbitan stearate	pasty	9005-67-8	1100	>97.0	14.9			✓		✓		✓	✓
Kotilen-S/3	POE (20) Sorbitan tristearate	solid	9005-71-4	1800	>97.0	10.5							✓	✓
Kotilen-O/1 AN	POE (20) Sorbitan oleate	liquid	9005-65-6	1100	>97.0	15.0		✓	✓			✓		✓
Kotilen-O/1 VL*, **	POE (20) Sorbitan oleate	liquid	9005-65-6	1100	>97.0	15.0		✓	✓			✓	✓	✓
Kotilen-O/1/050 VL	POE (5) Sorbitan oleate	liquid	9005-65-5	580	>97.0	10.0		✓	✓				✓	
Kotilen-O/3 VH	POE (20) Sorbitan trioleate	liquid	9005-65-6	1800	>97.0	11.0							✓	✓

* also available as food grade quality according to EC/98/86

** fulfill the requirements of the European Pharmacopoeia, latest edition

(1) calculated from specified values of the products