

## Aldo™ and Polyaldo™ Esters Specific Emulsifier Solutions for All Types of Formulations



### Aldo™ and Polyaldo™ Esters Range

Lonza's monoglycerol esters, Aldo™, and polyglycerol esters, Polyaldo™, are highly compatible emulsifiers. As glycerol esters, these cosmetic ingredients are based on renewable raw materials of 100% vegetable origin. The Polyaldo™ range is particularly suited for mild rinse-off formulations, such as children's shampoos, facial cleansers and shower gels. In particular, many Polyaldo™ emulsifiers help form small droplet sizes, and are therefore suited for both spray and foam formulations. Moreover, Polyaldo™ emulsifiers are appreciated for their additional benefits, such as long-lasting skin moisturization. Their versatility, ECOCERT certification and Soil Association approvals as well as Kosher and Halal food grade status, make Polyaldo™ and Aldo™ products your first choice for safe, mild and green formulations.

### Versatile Emulsifiers

- Widely used for cosmetics in the US, Europe, Japan and China
- Non-ionic and highly compatible emulsifiers
- Recommended for rinse-off and leave-on formulations such as children's shampoo, mild shower gels, sun care formulations, antiperspirants, sprays and lotions

### Natural

- ECOCERT and Soil Association approvals
- Manufactured from 100% plant derived raw materials
- Kosher food grade (KFG), non GMO grades available
- Replacement for polysorbates, PEG esters, and linear alcohol ethoxylates

## Cost-Efficient and Pleasant Skin Feel

- Suitable for use as emulsifiers, solubilizers and surfactants
- Appreciated for their long-lasting skin moisturization
- Particularly suited for mild rinse-off and skin pleasant leave-on formulations

## Aldo™ Emulsifiers

### High Purity Food Quality

Product	INCI Designation	HLB	Form	Unique Feature
Aldo™ DO KFG	Glyceryl dioleate	2	Liquid	Excellent pigment dispersion
Aldo™ HMO KFG	Glyceryl monooleate	3	Solid-liquid	High mono
Aldo™ HMS KFG	Glyceryl monostearate	3	Beads	High monostearate
Aldo™ MLD KFG	Glyceryl monolaurate	7	Soft Solid	Dispersible
Aldo™ MO KFG	Glyceryl monooleate	3	Liquid	Enhanced formulation stability
Aldo™ MS KFG	Glyceryl monostearate	4	Beads	Enhanced formulation stability
Aldo™ MSD KFG	Glyceryl monostearate	6	Beads	Dispersible

## Polyaldo™ Emulsifiers

Product	INCI Designation	HLB	Form	Unique Feature	Recommended Applications
Polyaldo™ DGDO KFG (NON GMO) 10-10-0	Polyglyceryl-10 Decaoleate	3	Liquid	W/O emulsifier suited for cold process formulations; excellent dispersion properties	Creams, lotions, foams & sprays
Polyaldo™ TGMS KFG (3-1-S)	Polyglyceryl-3 Stearate	7	Granules	O/W and W/O multi-functional emulsifier	Body milks and lotions
Polyaldo HGDS KFG (6-2-S)	Polyglyceryl-6 Distearate	8	Waxy Solid	O/W emulsifier suited for formulations requiring a drier, powdery after feel	Body milks and lotions
Polyaldo™ 10-1-S (Pastillated)	Polyglyceryl-10 Stearate	10	Beads	O/W emulsifier offering substantive skin & hair aesthetics	Creams, lotions, foams & sprays
Polyaldo™ 10-2-P (Pastillated)	Polyglyceryl-10 Dipalmitate	11	Beads	O/W emulsifier for high salt and pigment loads	Antiperspirants, color cosmetics, & sun care
Polyaldo™ 10-1-0 KFG (NON GMO)	Polyglyceryl-10 Oleate	13	Viscous Liquid	O/W emulsifier with long-lasting moisturization benefits; foam booster/stabilizer	Mild rinse-off & leave on formulations
Polyaldo™ 10-1-CC KFG	Polyglyceryl-10 Caprylate/Caprinate	14	Liquid	O/W emulsifier & solubilizer	Creams and lotions; aqueous solutions,

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