

## ADEKA NOL LG SERIES

The LG Series is a nonionic defoamer based on polyalkylene glycol structure. It has excellent foam breaking effects, excellent dispersing effect in water, less influence for detergency and is resistant to alkalis.

Polyoxyethylene-polyoxypropylene glycol PO-EO block copolymer surfactants to deliver these liquid EO/PO block copolymers, which have numerous applications in defoaming, wetting and emulsifying.

ADEKA NOL	LG-109	LG-128	LG-294	LG-299
Appearance	Clear liquid			
Component	Polyoxyalkylene Alkyl Ether			
Content %	100	100	100	100
Viscosity (mPas/25°C)	600	850	220	250
Specific gravity	1.03	1.03	0.99	0.99
PH	6-8			

### BENEFITS

- Excellent foam breaking effects
- Excellent dispersing effects in water
- Less influence for detergency - nonionic, anionic surfactants
- Resistance to alkalis (Chemical stability)

### APPLICATIONS

- Detergent (washing process)
- Metal cleaner, bottle cleaner, auto dish cleaner
- Fermentation
- Pharmaceutical and cosmetics
- Waste water treatment

## ADEKA – WHO WE ARE

ADEKA Corporation is a Japanese chemical company with more than a century of experience in the cosmetics and detergents market, having nowadays more than 12 offices, 4 R&D and 15 production sites worldwide.

ADEKA is a global company with polymer additives business organizations in Japan, Korea, Taiwan, Thailand, Singapore, China, India, USA and Europe. With global R&D centers, responsive sales and logistics organizations and a worldwide distribution network, ADEKA offers a broad portfolio of products to customers worldwide.

ADEKA has been present in the surfactants market in Europe for more than 20 years now. In 1999, ADEKA centralized their European sales activities in a new head office, ADEKA Europe GmbH, in Düsseldorf, Germany.

ADEKA has a dedicated Research & Development group equipped with latest technology and modern facilities for testing and evaluation of additives performances, which help to provide innovative solutions to the market.



100 YEARS WORTH OF TECHNOLOGIES AND REPUTATION

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### OUR DISTRIBUTORS

As a global chemical manufacturing company, ADEKA has established an effective global distribution network, utilizing qualified distributors and serving all targeted markets around the world. The company is fully dedicated to serving our small customers, and the distribution strategy is structured by geographic region.



OUR PRODUCTS IN COSMETICS, PERSONAL CARE & HOUSEHOLD

## OUR PRODUCTS DEFOAMING SURFACTANTS



# ADEKA NOL L, P, F SERIES

## POLYOXYETHYLENE-POLYOXYPROPYLENE GLYCOL PO-EO BLOCK COPOLYMER

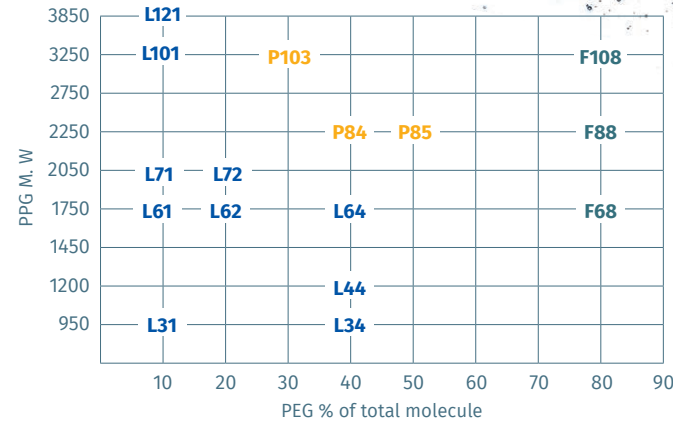
### Propylene Oxide (PO) and Ethylene Oxide (EO)

ADEKA NOL L Series Surfactants capitalize on ADEKA's extensive expertise in ethylene oxide (EO) and propylene oxide (PO) chemistry. We have expanded our line of nonionic surfactants to deliver these liquid EO/PO block copolymers, which have numerous applications in defoaming, wetting and emulsifying.

PO/EO content	Low EO (L series/liquid)	Middle EO (P series/paste)	High EO (F series / flake)
High PO	Anti foaming agent	Emulsifier	Emulsifier
Middle PO	Anti foaming agent	Dispersant Low foaming washing agent	Emulsifier
Low PO	Low foaming dispersant	Mild foaming washing agent	

### BENEFITS

- Low toxicity
- High molecular weight
- Low foaming
- Excellent emulsifying
- Excellent dispersing and solubility
- Excellent lubricity



### APPLICATIONS

#### Pharmaceutical, Cosmetic & Fermentation

- Emulsion dispersing agent
- Defoaming agent
- Solubilizer for fragrance
- Cosmetics based agent
- Shampoo
- Protective agent for dust
- General defoaming agent

## ADEKA CARPOL SERIES

Polyethylene Glycol is a polyol that is functionally 100% active. It is a clear, odorless, viscous liquid.

### BENEFITS

- Good lubricity
- Good solubility
- Good acid/alkali resistance
- Odorless
- Low toxicity
- Low absorbency

	Water soluble	Water insoluble
Monool	MH	M
Diol	PH	DL
Triol	GH	GL

	M series	DL series	GL series	MH series	PH series	GH series
Anti foaming agent	✓	✓	✓	✓	✓	✓
Demulsification	✓	✓		✓	✓	
Detergent	✓	✓		✓	✓	
Cosmetics	✓	✓	✓	✓	✓	✓

	Appearance	pH	Viscosity (mPa/s)	Odour	Flash Point
MH-20	Clear Liquid	6,0	33	Mild Odour	182
MH-50	Clear Liquid	6,9	95	Mild Odour	225
MH-150	Clear Liquid	6,3	285	Mild Odour	235
MH-1000	Clear Liquid	6,2	2250	Mild Odour	242
PH-2000	Clear Liquid	8,5	48500	Mild Odour	250
GH-5	Clear Liquid	7,2	1190	Mild Odour	250
GH-10	Clear Liquid	7,1	40000	Mild Odour	245
GH-200	Clear Liquid	7,9	374	Mild Odour	246
M-30	Clear Liquid	6,2	49	Mild Odour	202
M-60	Clear Liquid	6,0	101	Mild Odour	213
M-110	Clear Liquid	6,1	199	Mild Odour	217
M-250C	Clear Liquid	6,0	527	Mild Odour	218
M-370	Clear Liquid	7,2	738	Mild Odour	226
DL-30	Clear Liquid	6,2	57	Mild Odour	201
DL-50	Clear Liquid	6,3	89	Mild Odour	228
DL-80	Clear Liquid	6,3	120	Mild Odour	225
DL-150	Clear Liquid	6,6	250	Mild Odour	228
GL-130	Clear Liquid	6,1	346	Mild Odour	202
GL-250	Clear Liquid	6,5	501	Mild Odour	232

