



Activonol-3

GMO FREE & NATURAL PROPANEDIOL, ECOCERT & COSMOS

- **Natural Glycol - COSMOS & ECOCERT, Replacement of synthetic & petroleum**
- **Moisturizing Effect**
- **Anti-microbial Effect**

Abstract **100% Natural Origin**

Activonol-3 is an 100 % natural origin glycol (approved by COSMOS & ECOCERT) and derives from bio-fermentation process.

It is colorless and odorless. Activonol-3 can be used for skincare and personal care products as a cosmetic solvent, humectant, emollient instead of synthetic and petroleum product. Light skin feeling and easy spreadable character are very attractive to the formulator.

With good anti-microbial effect and no skin irritation, Activonol-3 is very useful and widely spreading in cosmetics and natural solvent.

Technical Information

INCI Name	Propanediol
Technical / Other name	1,3-Propylene glycol, 1,3-Propanediol
CAS No.	504-63-2
Appearance	Transparent liquid
Aspect	Colorless, Odorless
Solubility	Water soluble
Recommended dosage	~ 30 %

Skin Safety **Human Skin Patch Test**

: Activonol-3 under the single application patch test for 48 hrs to female adults subjects can be considered no irritant.

Test Sample	Concentration	Result
Activonol-3	100 %	No irritant

(IECK SAF-1203049)

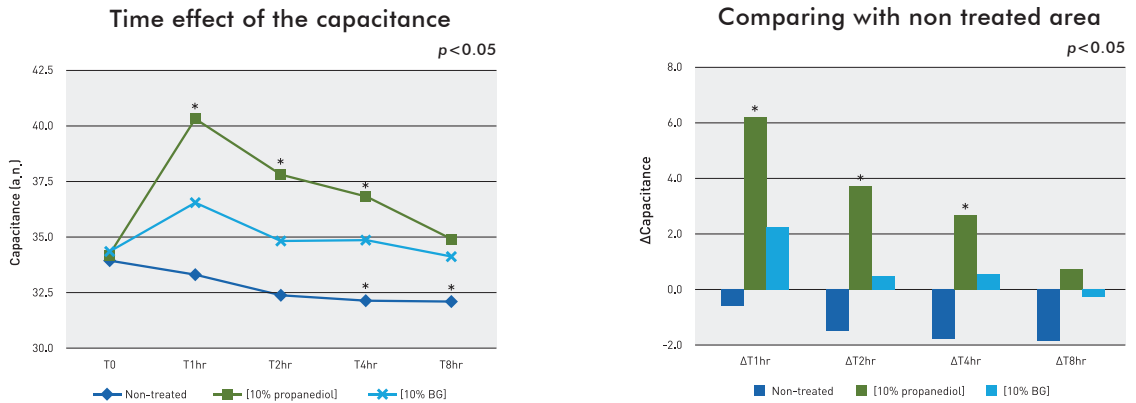


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Efficacy

1) Moisturizing effect



Activonol-3 significantly increased skin moisturizing effect than 1,3-Butylene glycol.

2) Anti-microbial effect

Activonol-3

Days	1	4	6	8	
Microorganism	Bacteria	ND	-	-	-
Microorganism	Yeast	ND	-	-	-
Microorganism	Mold	1.7 x 10 ³	ND	-	-

better

similar

1,3-BG

Days	1	4	6	8	
Microorganism	Bacteria	ND	-	-	-
Microorganism	Yeast	ND	-	-	-
Microorganism	Mold	1.2 x 10 ³	1 X 10	ND	2 X 10

Glycerin

Days	1	4	6	8	
Microorganism	Bacteria	ND	-	-	-
Microorganism	Yeast	ND	-	-	-
Microorganism	Mold	1.1 x 10 ³	ND	-	-

As a result of challenge test, Activonol-3 showed better preservative effect than 1,3-Butylene glycol and has similar effect with Glycerin.