

## Granactive Retinoid

### Unique Vitamin-A Delivery for Improved Skin Health

#### INCI NAME

Dimethyl Isosorbide (and) Hydroxypinacolone Retinoate

#### PERFORMANCE

- A concentrated and easily formulated anhydrous matrix containing 10% of the pinacolyl ester of all-trans retinoic acid in a premium delivery solvent
- One of the most bio-available, non-prescription forms of Vitamin-A sold in cosmetics
- Intended for use in anti-aging and anti-acne beauty treatments; provides low irritating, effective active delivery in daily maintenance applications
- Decreases the effects of UV induced skin damage and helps clear acne related symptoms
- Clinical data available upon request**

#### FORMULATION

- Can be formulated into oil-in-water emulsions, water-in-oil emulsions and other formula types
  - Applications include (but are not limited to) skincare, color cosmetic and body care formulations
  - For acne claims product must be co-formulated with an approved anti-acne active as subject to regional laws
- Add to the oil phase of all emulsion types; **clinical use level of 1%**
- Its recommended to formulate this product in a manner that avoids infusing air/oxygen into the final cosmetic product. Like all retinoids, the highly specific set of conjugated double bonds are susceptible to oxidation; anti-oxidants like Vitamin-E and BHT/BHA are suggested.

Technical Support? [formula@grantinc.com](mailto:formula@grantinc.com)

#### PHYSICAL PROPERTIES

Appearance	Light yellow liquid
Refractive Index @ 25°C	1.450 – 1.520
Specific Gravity @ 25°C	1.10 – 1.20
Hydroxypinacolone Retinoate (%)	9.50 – 10.50
Shelf Life	Two years in a closed container*

#### PACKAGING

1kg, 4kg or 12kg in aluminum bottles,  
\*filled under Nitrogen atmosphere