

## **TECHNICAL DATA SHEET**

### **Butylene Glycol**

**Description:** Organic multi-purpose alcohol (synonym: 1,3-butanediol) used as humectant, solvent, antimicrobial agent and emollient. Offers characteristics such as preventing the assimilation of water from atmospheres of high humidity into film-forming preparations and preventing crystallization of insoluble components in cosmetic vehicles. Colorless, slightly viscous liquid. Water soluble.

**CAS:** 107-88-0

**INCI Name:** 1,3 butylene glycol

**Benefits:**

- Can be used across a wide range of leave-on and rinse-off formulations to add moisture and emolliency
- Widely used as alternate solvent for glycerin or propylene glycol in water-based systems
- Can stabilize volatile compounds such as fragrances and flavors fixing them in cosmetic formulations and to retard the loss of aroma
- At a concentration of 8-10% butylene glycol has anti-microbial activity against bacteria, molds and yeasts

**Use:** Add to formulas to the water phase. Typical use level 1-10%. For external use only.

**Applications:** Serums, creams & lotions, hair care products, color cosmetics.

**Country of Origin:** Germany

**Raw material source:** Aldol

**Manufacture:** Butylene glycol is prepared by catalytic hydrogenation of aldol in the presence of hydrogen and a hydrogenation catalyst.

**Animal Testing:** Not animal tested

**GMO:** GMO free (does not contain plant-derived components)

**Vegan:** Does not contain animal-derived components

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