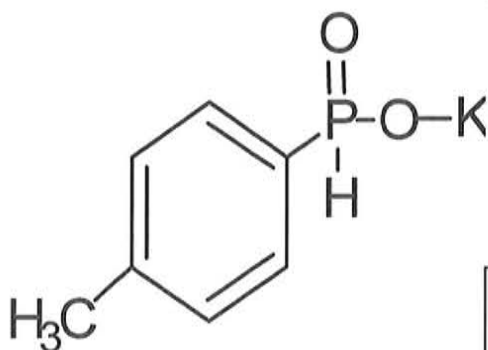




Novolyte Potassium Toluene Phosphinate

CAS# 73276-99-0



TOPAK - Improves Polyamide Processing and Performance

TOPAK functions in nylon 6,6 processing:

- ❖ Catalyst for condensation polymerization
- ❖ Antioxidant for low color - and allowing higher temperature and faster melt-thread spinning fiber production
- ❖ Reduce thread breakage during spinning and high-speed weaving
- ❖ Improve performance – for airbags and other applications

How does TOPAC improve processing, color, and performance?

- ❖ Decomposes hydroperoxides
 - But does NOT form color bodies as phenolics such as BHT may
- ❖ Is a reducing agent – Reacts with quinoid color bodies
 - To give non-conjugated and less colored reduction products
- ❖ TOPAK neutralize acids
 - Increase ability to withstand temperature
- ❖ Basic TOPAK has also been seen to improve coloring and wash-fastness
 - Due to its affinity for acid dyes - Also a mild UV stabilizer
- ❖ At 200 to 1000 ppm, see increased:
 - Tensile strength, elongation at break, and impact strength

TOPAK has allowed the invention of high-performance polyester alloys of polyimides and polyamides

- ❖ **TOPAK increases compatibility and enhances properties**
 - US 6403684, 6646031 at 100 to 2000ppm
- ❖ **Also improves properties when fiberglass reinforced**
- ❖ **Users claim improved dimensional stability, higher melting point, and more compact molecular structure.,**

Description and Properties

- ❖ **TOPAK – Potassium Salt of Toluene Phosphinic Acid CAS# 73276-99-0**
 - **Novolyte is the only commercial source of TOPAK:**

Property	Min	Max
Molecular weight		194.1
Wt. % TOPAK	48	52
Wt% Water	48	52
Density 20°C	1.20	1.24
Color- APHA		150
Phosphonate, potassium salt		2.5

Novolyte is the largest producer in the world of aryl phosphinic acids and derivatives.

Please call for additional information

www.novolyte.com customerservice@novolyte.com 1-216-867-1050