

K-PURE[®] TAG-2678 is a quaternary ammonium blocked triflic acid thermal acid generator specifically designed for use in thermally cured microlithography coatings. It has a sharp and irreversible activation profile and does not produce any volatile components upon activation. K-PURE[®] TAG-2678 is ideally suited for amino crosslinkable (melamine, self-condensed melamine, glycoluril, urea) or silanol and alkoxy silane crosslinkable resins. K-PURE[®] TAG-2678 can also be used to catalyze the polymerization of epoxy resins and ring opening polymerization of cyclic ethers as well as other monomers capable of undergoing cationic polymerization.

ADVANTAGES: Sharp Activation Profile
 No volatile by-products after activation

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| TYPICAL PROPERTIES: | Appearance | White Crystals |
| | Melting Point °C | 120-121 |
| | Active content, % | 100 |

SOLUBILITY: Soluble in ethyl lactate, PGME, acetone, and propylene carbonate. Limited solubility in PGMEA. Sparingly soluble in water (~1%).

APPLICATIONS: Anti-reflective Coatings (ARC, BARC)
 Resist under layers (bilayer, trilayer resists)
 Siloxane etch stop hardmasks

**TYPICAL USAGE
LEVELS:** 0.01 - 3.0 % as supplied on total resin solids.

INCORPORATION: May be added directly to the formulation.

SHELF LIFE: Minimum 12 months from the date of manufacture, when stored at ambient conditions in the original container.

**HANDLING &
STORAGE:** Handle with extreme care and consult the SDS for safe handling.
 Best if stored tightly sealed in refrigerator.

REGULATORY: Please refer to the Safety Data Sheet.

File: K-PURE[®] TAG-2678

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