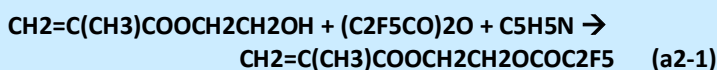


## Pentafluoropropionic anhydride (C<sub>2</sub>F<sub>5</sub>CO)<sub>2</sub>O

<b>Purity</b>	99%
<b>CAS Number</b>	356-42-3
<b>Molecular Formula</b>	C <sub>6</sub> F <sub>10</sub> O <sub>3</sub>
<b>Molecular Weight</b>	310.05

A raw material for a polymer having a pentafluoropropionate ester group that dissolves in a negative developer for a photoresist composition with low line edge roughness (LER).



Line edge roughness evaluation

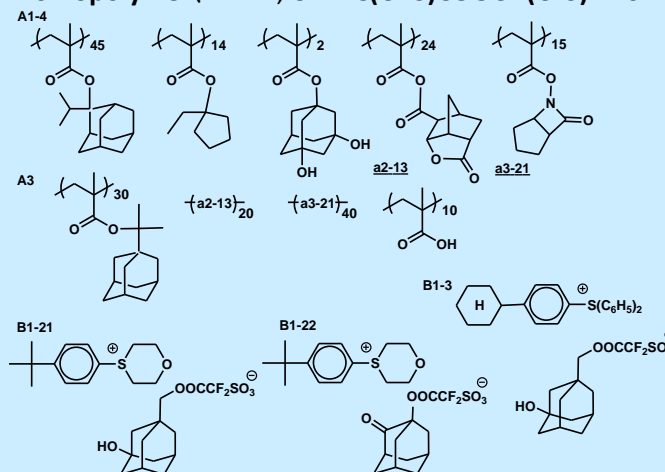
LER	Polymer	Acid generator	LER
Ex-1	A2-1/A1-4 = 0.7/10	B1-21/B1-22 = 0.95/0.45	<b>3.22</b>
Ex-2	A2-1/A1-4 = 0.7/10	B1-3=0.6	<b>3.24</b>
CmpEx-1	A2-2/A3 = 0.2/10	C6H11-C6H4-S(C6H5) <sub>2</sub> /O3SC4F9=0.55	<b>5.94</b>

**Note-1** ; All examples are formulated a quencher ; 2,6-Diisopropylaniline 0.07 pph

**Note-2** ; Smaller LER is better at side wall's □□

### Application

A2-1; **a2-1 homopolymer**、A2-2; **CH<sub>2</sub>=C(CH<sub>3</sub>)COOCH(CF<sub>3</sub>)<sub>2</sub> homopolymer**



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### Properties:

<b>Appearance</b>	Liquid
<b>Boiling point, °C</b>	73-74

**Capacity:** 500kg/month

**Packing:** -  
**UN, PG:** -