

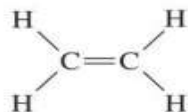
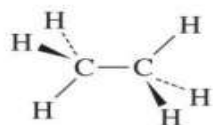
3. Principles to Plasma Surface Activation Treatment

3.5 Cleaning process (organic contamination etc)

Cleaning process (evaporation and pure gas flow etc)

Organic materials binding energy (3 ~ 12eV)

Organic



단일결합	kJ/mol	eV
C-H	413	4.28
C-C	348	3.61
C-N	293	3.04
C-O	358	3.71
C-F	485	5.03
C-Cl	328	3.40
C-Br	276	2.86
C-I	240	2.49
C-S	259	2.68
이중/삼중결합	kJ/mol	eV
C=C	614	6.36
C=C	839	8.70
C=N	615	6.37
C=N	891	9.23
C=O	799	8.28
C=O	1072	11.11

Chemical bond	Energy/eV	Chemical bond	Energy/eV
H-CH ₃	4.5	H-OC ₆ H ₅	3.8
H-C ₂ H ₅	4.2	CH≡CH	10.0
H-CHCH ₂	4.7	CH ₂ =CH ₂	7.5
H-CCH	5.0	CH ₃ -C ₆ H ₅	4.3
H-C ₆ H ₅	4.8	CH ₃ -CN	5.4
H-CH ₂ C ₆ H ₅	3.7	CH ₃ -OH	3.9
H-CH ₂ OH	4.1	CH ₃ -Cl	3.6
H-CH ₂ COCH ₃	4.3	CH ₃ -I	2.4
H-OCH ₃	4.5	H-OC ₆ H ₅	3.8
C ₆ H ₅ -Cl	4.1		