

Group	1	2	3	4	5	6	
residue	AGPST	DENQ	HKR	ILMV	FWY	C	
size						.	●large ●small ●tiny
hydrophobicity	⦿⦿⦿⦿	⦿⦿⦿⦿	⦿⦿⦿	⦿⦿⦿⦿	⦿⦿⦿	⦿	⦿hydrophobic ⦿hydrophilic
charge	○○○○○	⊖⊖○○	⊕⊕⊕	○○○○○	○○○	○	⊕positive ○neutral ⊖negative
polarity	○○○⚡⚡	⚡⚡⚡⚡	⚡⚡⚡	○○○○○	○⚡⚡	⚡	⚡polar ○nonpolar
aromaticity	×××××	××××	⬢××	××××	⬢⬢⬢	×	⬢aromatic ×non-aromatic
conserved but different:	conservative ▼		non-conservative ▼				
>1 property difference	●						
conserved:							