

:
 .head hydrophilic :
 .tail lipophilic :
 :
 :
 :Anionic surfactant -1
 :Cationic surfactant -2
 :Amphoteric surfactant -3
 :Non-Ionic surfactant -4
 : (:
 :Hydrophilic Lipophilic Balance (HLB) _____

HLB

$$HLB = 20 \left(1 - \frac{S}{A} \right)$$

$$HLB = \frac{E + P}{5}$$

oxyethylene

E

P

:

$$HLB = \frac{E}{5}$$

E

HLB

:

HLB

$$HLB = \frac{WA \times HLB_a + WB \times HLB_b}{WA + WB}$$

			HLB	HLB
	HLB	A	HLB	HLB _a
	HLB	B	HLB	HLB _b
.A		A		WA
.B		B		WB