

**(NJC)**

(2007/ 7/10 )

(2007/4/12 )

*R.I*% *Cl*. % *F.S*. *pH**EC***Abstract:**

Some physical and chemical properties of samples studied such as, refractive index *R.I* , electrical conductivity *EC* and the acid function *pH* were determined. The percentage of chloride % *Cl* , percentage of fatty acids % *F.a* and percentage of free soda % *F.S* were determined also.

) Hydrophobic

(

( )

Monomers

Micelles

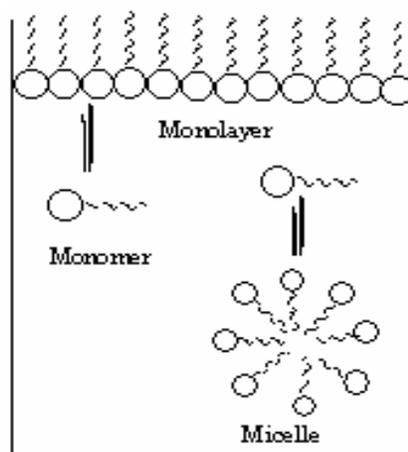
(3-1)

(10-4)

Amphiphilic

.(1)

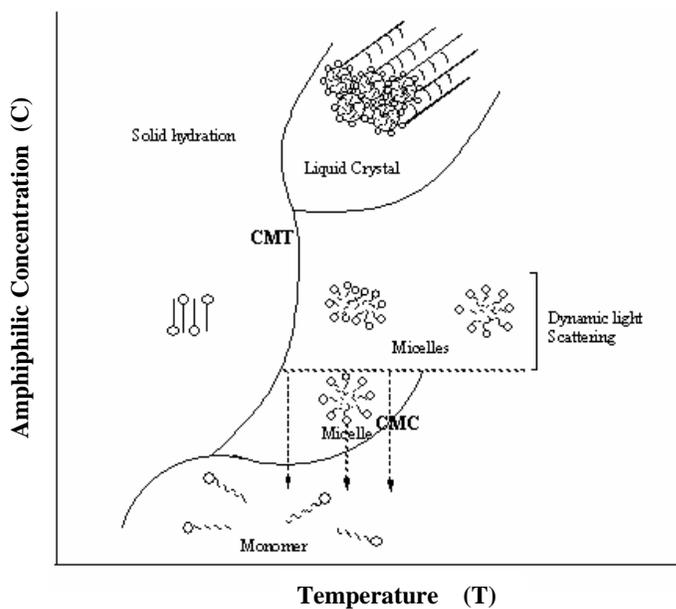
( ) Hydrophilic



Monomer

: (1)

Micellar Concentration (CMC) (11)  
 .(2) Micelles Critical



:(2)

. Critical Micellar Temperature CMT \*

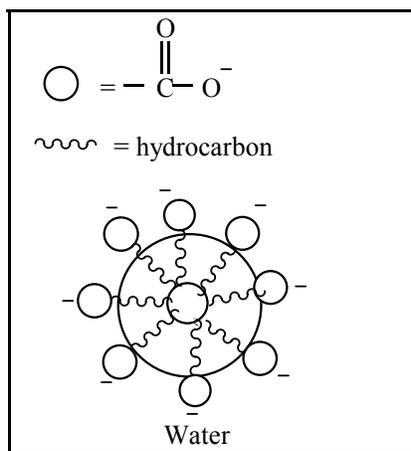
(12-11)

C < CMC

C > CMC

10.000

(3)



(3)

TiO<sub>2</sub> )

(

( )

( )

(Butylated hydroxy tolvene)

(2,4,4-Trichloro-2-hydroxydiphenylether)

(14)

\*

(1)

- (3) Refractrometr, (Atago 1T- Japan) :
- (4) pH- meter, (Oakton- 2100 - USA) (1) ميزان حساس (Digital balance Sartorius, Bp- 2015-Germany)
- (5) Conductivity- meter, (Jlasco- India) (2) Water bath, (W 350-Germany)

		Dove	1
		Dove	2
		Dove	3
		Clean clear ( )	4
		Clean clear	5
		Elvan Fresh	6
		Rose	7
		Fa	8
			9
		( )	10
			11
		altinözü	12
		Dettol	13
		Basma	14
		Swing	15
		( )	16

*pH* ( 2.5) (14) :

30 ( 75

*EC* ( *RI* ( :

30 30

. 10mS .

∴ (14) % Cl \*

$$\%Cl = \frac{N_{AgNO_3} \times V_{AgNO_3}}{W_{Sample} (mg)} \times 35.5 \times 100 \dots\dots(1)$$

0.17

∴ (14) % F.a \*

$$\%F.a = \frac{W^*}{W_{Sample}} \times 100 \dots\dots(2)$$

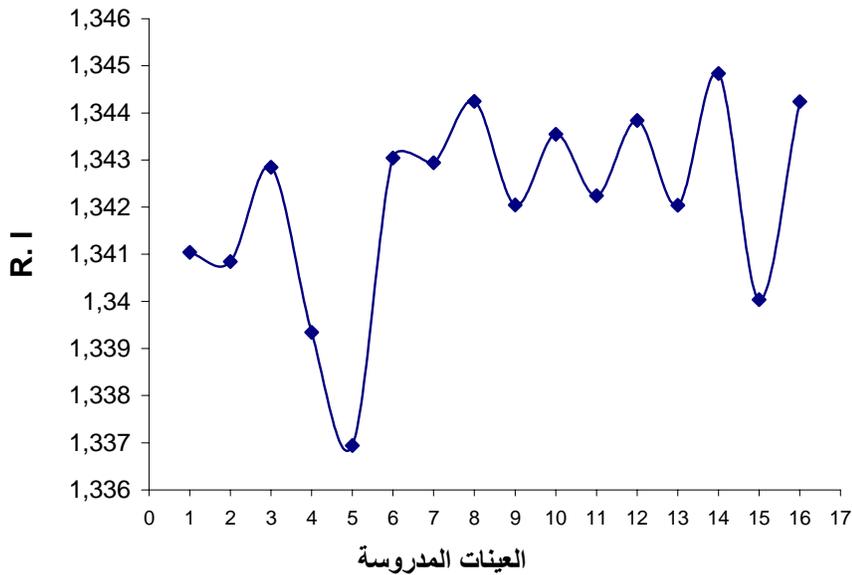
( 2.5)

0.1 + ) = w\*

∴ (14) ( (

% F.S \*

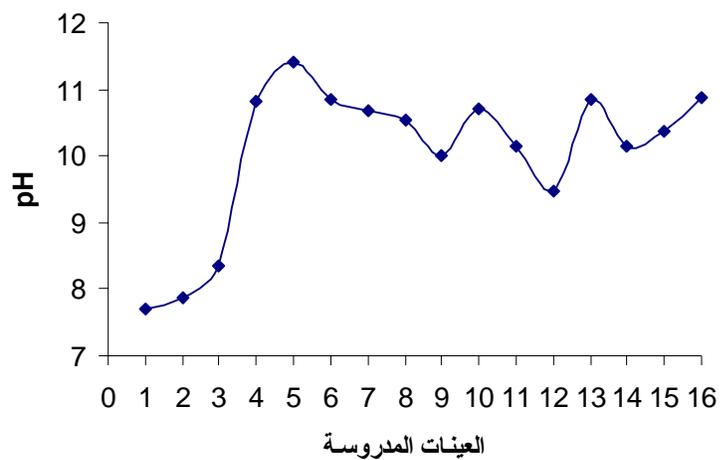
$$\%F.S = \frac{N_{HCl} \times V_{HCl}}{W_{Sample} (mg)} \times 40 \times 100 \dots\dots(3)$$



∴(3)

(3)

(5)

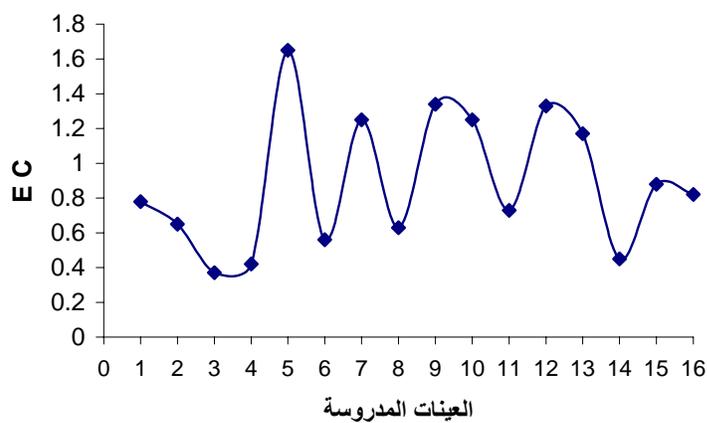


(4)

(15) (5.30 - 4.25)

(4)

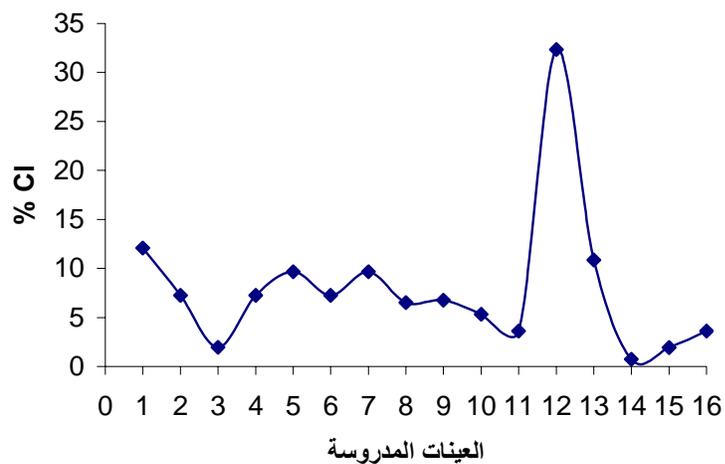
(3) (2) (1)



(5)

(5)

(5)



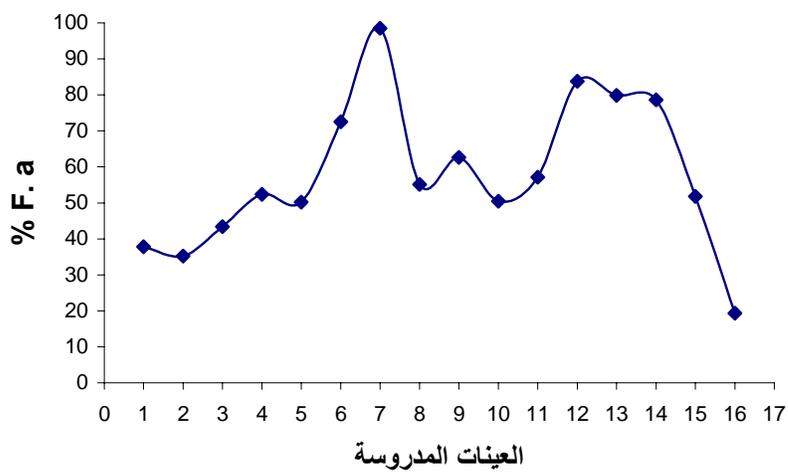
:(6)

(6)

(12)

(14)

(16)

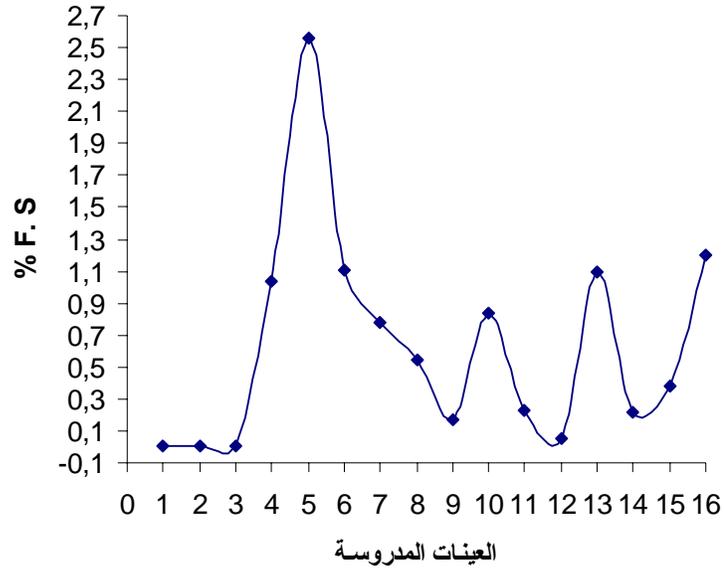


:(7)

(7)

(14) (48.5)

(16) (3) (2) (1)



%F.S : (8)

(3) (2) (1) (8)

(Dove

C>CMC

<sup>(14)</sup>(3.2)

%F.S

10.000

%48.5

(3) (2) (1) -1

( Dove )

( 8-7)

) (5) -3

(Clean clear (Dove)

) (16) -2

(( )

- (14)
- 5
- 4
- ) (12)
- 6 altinözü
- (
- (% 3.2)
- (16)
- crystals, Academic Press, New York, 1978. -1
- 10-** D. Voet, J. G. Voet and C. W. Pratt, *Fundamentals of Chemistry*, John Wiley and Sons, Inc, New York, 1999. .2007
- 11-** R. Pecora , *Dynamic Light Scattering (application of photon correlation spectroscopy)*, Plenum Press, New York, 1985. [WWW.vBulletinClub.com](http://WWW.vBulletinClub.com)
- 12-** A. L. Lehninger, D. L. Nelson and M. M. Cox, *Principles of Bio-chemistry*, 2<sup>nd</sup> ed., Worth Publisher, New York, 1993. 22 -2
- 13-** L. Stryer, *Biochemistry*, 4<sup>th</sup> ed., W. H. Freeman and Company, New York, 1995. .2007
- " <http://ar.wikipedia.org/wiki/18531> -3
- .2005 30
- [www.alriyadh.com](http://www.alriyadh.com)
- 4-** R. T. Morrison and R. N. Boyd, *Organic Chemistry*, 6<sup>th</sup> ed., Prentice- Hall, India, 1992.
- 5-** K. J. Laidler and J. H. Meiser, *Physical chemistry*, Cumming publishing company, Inc., 1982.
- 6-** J. W. McBain, *Advan. Colloid Chem.*, 1942, **1**, 142.
- 7-** W. D. Harkins, *J. Chem. Phys.*, 1945, **13**, 381.
- 8-** W. D. Harkins and R. S. Stearns, *Ibid*, 1946, **14**, 215.
- 9-** L. Liebert, Supplement 14 (Solid State Physics), Liquid
- 14
- .1988
- 15
- .2006/12/24
- [WWW.ArRiyadh.com](http://WWW.ArRiyadh.com)