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536.6/536.71:533.15:548.5:54-148

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GROWTH OF GAS HYDRATES IN THE WATER/OIL EMULSIONS ACCORDING TO METHOD DIFFERENTIAL THERMAL ANALYSIS

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Key words: *water/oil emulsion, gas hydrates, DTA method*

[1].

(1-4)

[2, 3].

3 %-

[4].

[5].

[6].

10

-12 (CCl₂F₂),

-II.

-12

Castrol 0EDG
IKA T10 basic

120 c

340 / .

[7].

Motic

USB-

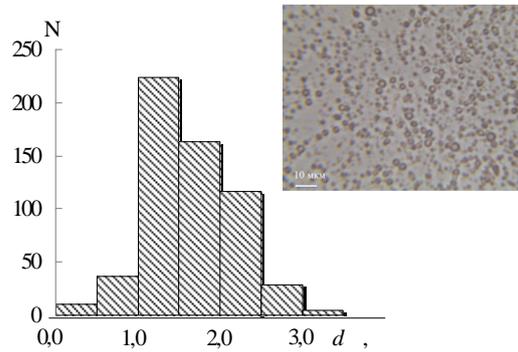
moticam.

20 %.

2

. 1.

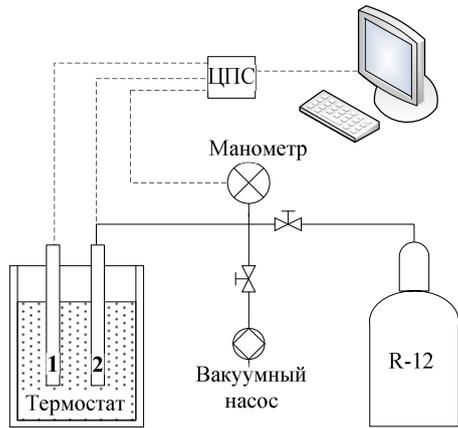
1,3



. 2.

FP50-HE

Julabo.



180 ,

H5S,

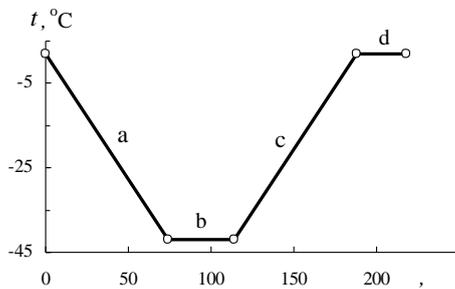
2FY-1B.

5002

1,5

-12

+2 -42⁰



.2. - : 1 - () ,
2 - () ,

400 . 10
512),
 $\pm 0,1 \text{ K.}$

I, Thermal

R-12.

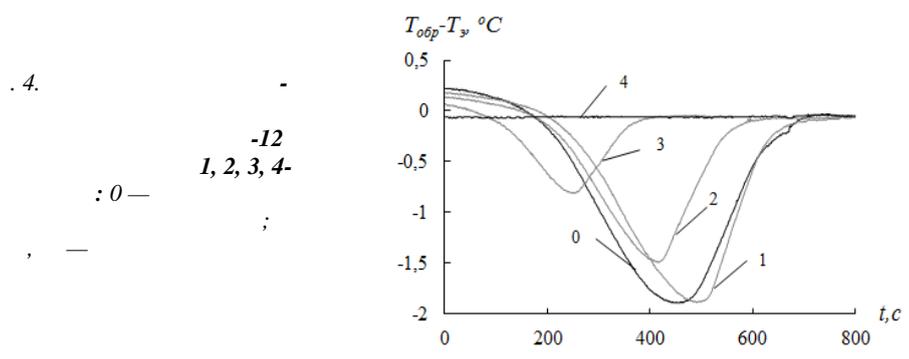
-100 +900 .

.3.

.3.

a, c —
b, d —
 $1^0 / ;$
 $-42^0 +2^0$

3. «
 $+2^0$
 -12
 P_o
 ΔP
 -12
 P_o
 -12
 $P_o = 210$
 (.4).



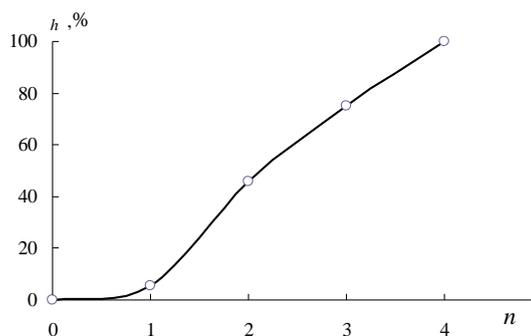
4. -
 -12
 1, 2, 3, 4-
 : 0—
 ;

$$P_h = (S_o - S_n) / S_o \cdot 100\% , \quad (1)$$

S_n —
 ($n = 1, 2, 3, \dots$), S_o —
 P_h
 (.5).

[9]

[10].

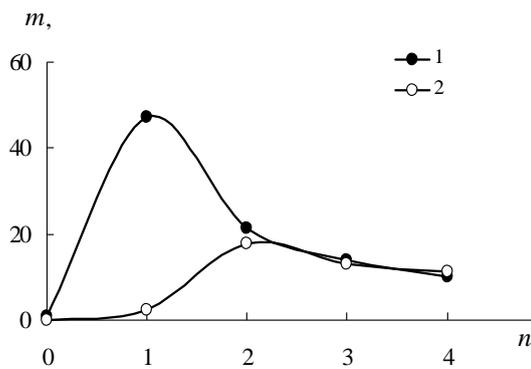


$$\Delta m_1 = \frac{MV\Delta P}{RT}, \quad (2)$$

ΔP —
 $M = 120,9 \cdot 10^3$ / —
 $T = 275,15 K$ —

, V —
 $-12, R$ —
 () .

Δm_1 (2) . 6.



-12 (CCl₂F₂·17H₂O)

$$\Delta m_2 = 0,395m_o P_h / 100, \quad (3)$$

m_o —
 / , P_h —

P_h , Δm_2 . 5.

5 6
 -12 Castrol 0EDG,
 -12
 -12 Castrol.
 (. . . 6).
 (. . . 5)
 (. . . 6).
 -12
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538.9:548.51

INFLUENCE OF PHYSICAL AND CHEMICAL PROPERTIES OF OIL UPON GAS HYDRATE GENERATION IN THE WATER-IN-OIL EMULSIONS

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Key words: hydrate, water-in-oil emulsion, gas hydrate

80 %

[1].

[2].

10–15

[3].