

, , -
 .
 : 1. -
 // . - 1962. - . 12. 2. -
 // .
 .: . - 2005, 3(26). - . 204 - 206. 3. . , .
 . - : . , 1988. - 185 . 4. *Gessner H. A.* Hydrobotanik / - B. 2.
 - Berlin, 1969. - 701 . 5. . , .
 // 1-
 « » , 5 - 6 2004 . .
 6. . . « »
 : . . . «AQUATERRA», - ,
 1999. - . 72 - 73.

20.06.07

664.33

• • , , • • , « »

, 70° .

In the article the tradition approach shortcomings of sunflower seeds processing are examined. The advisability of technological innovation of oil separation and food proteins separation from cover-free sunflower seeds by the method of bumping and solvent direct extraction of oil residua at the temperature 70 °C above zero is substantiated. The results of experiment are analysed.

, . , -
 , -
 , -
 36 – 40 102 – 122 ° ,
 13 %, 4,3 – 4,4 %, -
 120 – 130 ° , -
 52,4 86,1 % [1]. -
 100 ° -
 , 2 -
 , (-
 , .), -
 , 130 – 140 ° -
 [1]. -
 , , -
 . -
 , -
 70 ° , -
 , 3 – 5 , -
 5 – 8 [2, 3]. -
 , -
 . -
 , %: 60 – 65, -
 18 – 22, : – 53 – 54, -
 30 – 32, , -
 , , , . . , -

, , -
 [1, 4, 5].
 , -
 [6] -
 , , , , -
 , , , , -
 . [7].
 , 60 – 65 %
 , 35 – 40 % -
 , -
 6 – 7 %.
 [4]. , -
 , . -
 [4].

| | , | | , |
|-----|------|-------|------|
| | | | |
| . . | 53,3 | 21,1 | 0,5 |
| . . | 49,5 | 30,0 | 0,8 |
| . | - | - | 0,54 |
| | 51,4 | 25,55 | 0,61 |

.
 , , , -
 , . -
 . -
 60 ° . -
 -
 ,
 37 – 51 ° [8].

1,6 – 2,0 %.

« »

() 1

1 .

0,75 – 0,25

[9].

()

1982. - 416 . **2.** // -
. - , 2002, 3. **3.**
. , 200600171. . 06.11.2006. **4.**
. - , 1991. - 304 . **5.** -
82 //
. - , 2000, .91. **6.** - , 1991. - 287
. **7.** , , , ,
- // - -
. , 2003, 2. **8.**
/ , ,
- , 2006, 4. **9.** , , -
200604223. . 17.04.2006. **10.** ,
. - , 1987. - 315 .

15.09.07

661.96; 614.84

. , , , ,
. , , , ,
. , ,

. , , , ,
. , , , ,
. , , , ,

The paper the questions of hardware registration metal-hydride technics, in particular the thermosorption compressor which are alternative to the used equipment for processings of hydrogen are considered. Proceeding from experience of authors, attempt to unit in a uniform package normative documents which regulate a choice and configuration of units and units at creation metal-hydride technics is undertaken.

. , , , ,
. , , , ,
(. , , , ,