

Ms 5098/16-19. Eötvös társas. Regester.

4 kötet bor.

M. TUD. AKADEMIA
KÖZMŰVELŐSÉGI OSZTÁLY
1872. évi 17. sz.

Ms 5098 / 16

Eötvös-Törvény

I 40 2 törvény

~~I 40~~ ² törvény

MAGYAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

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2. Víz.

$T_k = 412$ körülbelül Gay-Lussac de Lavoisier szerint

Gőzfeszítési Levegő - Regnault.

Felületi feszítési együttható értékeinek táblája

$$\alpha = 7,688 - 0,0136t - 0,000035t^2$$

E szerint az átlagos és a víz vonatkozásában a táblában megadott $\frac{p}{p_e}$ értékei.
Víz 0° -nál megadott víz 96 méter és

$$\frac{T_{vz}}{T_e} = \frac{369}{253} = 1,458$$

az értékek egymással

Ethere		Víz		Nyomás		$\frac{p}{p_e}$
t	T	t	T	p_e	p	
-20	253	96	369	68,9	657,4	9,54
0	273	125	398	184,4	1743,9	9,45
+20	293	154	427	432,8	3982,8	9,22
+40	313	183	456	907,0	8080,8	8,91
+60	333	213	486	1725	15197	8,81
+190	463	401	674			

Az átlagos és a víz vonatkozásában a táblában megadott értékek egymással

Átlagos	Víz	$\frac{T}{T_e}$
-20	+95,7	1,457
3	130	1,460

Vander Waals hőtér

3. Benzol . C_6H_6

Kritikus $T = 280,6$ ^{Sajatschevsky} ~~Ramsay~~, 291,5 Ramsay

Kritikus $P = 49,5$ Sajatschevsky. 90,5 Ramsay

Gőspedig Landolt-Regnault.

Teljesítmény Feszültség Schiff (L. Ann. 223)

$$f_{79,9} = 2,127$$

$$a_{6,7}^2 = 6,968 \quad \text{Landolt - bit a zűrűs } d_{6,7} = 0,895 \text{ és } f_{6,7} = 3,118$$

Léni 79,9 fokos $f = 2,127$, $p = 764,1$ bar.

$$79,9 \text{ fokos} \quad \frac{p T^2}{f^3} = 9889 \times 1000$$

cumet megjelölhet ártól 25° C.

e. jennet $\frac{T}{T_c} = \frac{352,9}{298} = 1,184$

Er ismételt jennet

Corresponding hőmérséklet				Nyomás		
Aether		Benzol		Aether	Benzol	$\frac{p}{p_c}$
t	T	t	T	p_c	p	
-20	253	26,5	299,5	68,9	102,6	1,49
0	273	50,2	323,2	184,4	273,4	
+20	293	73,9	326,9	422,8	620,8	
+40	313	97,6	370,6	907,0	1258,0	1,38
+60	333	121,3	394,3	1725,0	2305,0	
+80	353	145,0	418,0	3022,8	3912	
+100	373	168,3	441,7	4953,3	6117	1,24
+190	463	275,2	548,2			
+195,5	468,5	281,6	554,6			

Alk. Aether is vízre vonatkozó főtáblás egyenlőség meg-
jelölés

t	v_{ij}	U_{ij} U_{ij} form	T_{ij}
		Bengal	Tripur
161,5	434,5	352,9	79,9
70	343	279,7	6,7
			1,231
			1,226

1. Chloroform CHCl_3

$T = 260,0$ Sajtschevsky (Lor) $P = 54,9$ Sajtschevsky (Lor)

Göppert Landell - Regnault.

Füchtig's formula E.:

$$\begin{aligned} f_{3,3} &= 3,003 \\ f_{16} &= 2,818 \\ f_{47,4} &= 2,374 \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} - \frac{df}{dt} = 0,0150$$

$$\left. \begin{array}{l} \\ \\ \end{array} \right\} - \frac{df}{dt} = 0,0144$$

Für $d_0 = 3,052$ $d_{50} = 2,227$ $d_{150} = 0$ by $f = 3,052 - 0,015t + 0,0000105t^2$

Schiff (L. Ann. 223) spürt fropert 60,6 $P_0 = 753,4$ ncl is $f_{60,6} = 2,210$ Schiff

Kirszin's epletsambül $f_{47,4}$ fcl $\frac{df}{dt} = 0,0144$ $f_{60,6} = 2,189$ Eplets

Späntin, Eö. i. t. k. k. k.

$t = 47,4$ $f_{47,4} = 2,374$, $T = 320,4$, $p = 489$

47,4 fcl $\frac{pT^2}{f^3} = 3752 \times 1000$

or aethenit 10°5 meßfeld chlorof. 47,4 ncl

e spürt

$$\frac{T}{T_e} = \frac{320,4}{283,5} = 1,130$$

$\frac{T}{T_e}$ ncl kirszin's epletsambül
deals' hömäs'ghl. k. k.

Aethen		Chloroform	
t	T	t	T
+10	363	24,2	293,5
+21,5	294,5	60,6	333,6
+50	323	92,0	364
+80	353	126	399
+120	393	171	444
+190 ^{*)}	463	250	523
+195 ^{xx)}	468,5	256,4	529,4

Späntin Schiff i. t. k. k.

$t = 60,6$ $f_{60,6} = 2,21$ $T = 333,6$ $p = 753,4$

60,6 fcl $\frac{pT^2}{f^3} = 7778 \times 1000$

e spürt
aethenit 21,5 meßfeld chlorof. 60,6

torill

$$\frac{T}{T_e} = \frac{333,6}{294,5} = 1,133$$

Nyomais

Aethen	Chloroform	
p_e	p	$\frac{p}{p_e}$
114,7	193	1,68
462	753,4	1,63
1265	1969	1,56
3023	4482	1,44
7719	10455	1,35

1)

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*) Kirszin's höfcl Sajtschevsky's eplets

xx) Kirszin's höfcl Ramsay's eplets

Sajatschewsky lét istike a kritikus hőfokra

Acet. 190 Chloroform 260

e szerint

$$\frac{T}{T_e} = \frac{533}{463} = 1,151$$

e szerint:

Acet.		Chloroform		szén		$\frac{p}{p_e}$
t	T	t	T	p _e	p	
-10	263	29,4	302,4	117,4	242	2,06
21,5	294,5	65,7	338,7	462	910	1,97
50	323	98,4	371,4	1265	2340	1,85
80	353	133	406	3023	5103	1,68
120	393	179	452	7719		
190	463	260	533	36,9 atm	54,9 atm	1,49

*) kritikus nyomás Sajatschewsky tábl

Ramsay és Straus istike a kritikus hőfokra (Acet.)

Acet. = 195,5 Chloroform 260

$$\frac{T}{T_e} = \frac{533}{468,5} = 1,138$$

e szerint

Acet.		Chloroform		Acet.		$\frac{p}{p_e}$
t	T	t	T	p _e	p	
-10	263	26,3	299,3	117,4	211	1,80
21,5	294,5	62,1	335,1	462	806	1,72
50	323	94,6	367,6	1265	2110	1,67
80	353	128,7	401,7	3023	4752	1,57
120	393	174,2	447,2	7719	10740	1,31
195,5	463	260	533	40 atm	54 atm	1,35

*) kritikus nyomás Ramsay szerint

Kérem Van der Waals-érték megadását a kritikus
hőfokhoz a Van der Waals-féle egyenlet törvénye mellett
megfelel:

$$\frac{T}{T_c} = 1,08$$

Ez értéket

Aether		Chloroform		Nymus		$\frac{p}{p_c}$
t	T	t	T	p	p _c	
0	273	22	295	176	184	0,957
50	323	76	349	1250	1265	0,988
120	393	157	424	7417	7719	0,962
190 ^{*)}	463	227	500	54,94	36,9 atm	1,49

^{*)} kritikus.

Megfelelő hőmérsékletet az 1) táblában megjelöltetted
 $\frac{pT^2}{d^2} = \frac{p_c T_c^2}{d_c^2}$ egyenletből. Néhány hőmérsékletre a $\frac{pT^2}{d^2}$ értéket.

Chloroform

~~t~~
~~24,2~~
~~60,6~~
~~92~~

Chloroform

t	T	p	d	$\frac{pT^2}{d^2}$	Aether megfelelő hőfok
24,2	297,2	193	2,698	868×1000	-10
47,4	320,4	489	2,374	3752×1000	+10,5
92	365	1969	1,761	48200×1000	49,4

Csodálatos!

E. tövény megválasztása.

1. Chloroform CCl₃

p Göpperich Landolt - Reymann.

f Expteliseimbit $d_0 = 2,052$ $d_{50} = 2,007$ úgy $d_{250} = 0$ line

$$f = 2,052 - 0,015t + 0,0000105t^2$$

$t = 60,6$ $p = 752,4$ $f = 2,21$ f. értékek szüntes

$$\frac{T}{T_1} = 1,133$$

Hőmérsék		Göpperich	Expteliseimbit	$\frac{pT^2}{f^3}$	Meyföld's kétes hőmérsék		$\frac{T}{T_1}$ értékek szüntes		Diff
t	T	p	f	f^3	t'	T'	t ₁	T ₁	t' - t ₁
20	293	160,5	2,756	658 m.	-13	260	-13,7	259,3	+0,7
60	333	755,4	2,190	7975 m.	+21,8	294,8	+21,7	294,7	+0,1
100	372	2428,5	1,657	74266 m.	+56,5	329,5	57,1	330,1	-0,6
140	413	6020,2	1,158	663650 m.	+92	365	92,5	365,5	-0,5
165	438	9527,8	0,863	2,843900 m.	+114	387	113,6	386,6	+0,4

2. Spén kény CS₂

p Göpperich Reymann Landolt.

f. Saját expteliseimbit $f_0 = 3,737$ $f_{50} = 2,075$ úgy $f_{250} = 0$ kény a formula.

$$f = 3,737 - 0,017t + 0,00001t^2$$

$t = 40$ $p = 617,5$ $f = 2,075$ bit szüntes :

$$\frac{T}{T_1} = 1,138$$

Hőmérsék		Göpperich	Expteliseimbit	$\frac{pT^2}{f^3}$	Meyföld's kétes hőmérsék		$\frac{T}{T_1}$ értékek szüntes		Diff
t	T	p	f	f^3	t'	T'	t ₁	T ₁	t' - t ₁
-20	253	47,3	4,081 3,92	44,546	-47	226	-50,7	222,3	+3,7
+20	293	298,0	3,401	650,3 m.	-13,5	259,5	-13,9	257,4	+2,1
+60	333	1164,5	2,759	6189 m.	+18	291	19,6	292,6	-1,6
+100	372	3325,1	2,137	47403 m.	+49	322	54,7	327,7	-5,7
+140	413	7604,0	1,553	346280 m.	+81,5	354,5	89,9	362,9	-8,4
+150	423	9096,0	1,412	578130 m.	+89	362	98,7	371,7	-9,7

6. Kénészor SO_2

p. Göpperich +50 fohig Reynault +50 faktot Sajatschewsky (Lundell)

f. fohig $\rho = 2,438$ $\rho_{40} = 1,762$ $\frac{\rho_{40}}{\rho} = 0,0169$

$t = 19$ m hőmérséklet és fohigulat

$$\frac{T}{T_1} = 0,945$$

Hőmérsék		Göpperich	felhőzet jelölés	$\frac{\rho T^2}{f^3}$	megfelelő hőtartalom		T ismételt számítás		Diff
t	T	p.	f.		t'	T'	t',	T',	t'-t',
-20	253	478,8	2,776	1432 M.	-3	270	-5	268	+2
+20	293	2462	2,100	22822 M.	+38	311	+37	310	+1
+60	333	8480	1,424	323730 M.	+80	353	+79,5	352,5	+0,5
+80	353	13156	1,086	1,281000 M.	+102	375	+100,5	373,5	+1,5

7. Benzol C_6H_6

p. Göpperich Lundell Reynault

f. Faktot fohigulat $\alpha_0 = 3,209$, $\alpha_{80} = 2,126$ és $\alpha_{150} = 0$ értéke

$$f = 3,209 - 0,0144t + 0,000104t^2$$

A faktot láthat $f_{19,9}$ és $p = 764,1$ $f = 2,127$ értéke szerint:

$$\frac{T}{T_1} = 1,184$$

Hőmérséklet		Göpperich's	Faktoriális	$\frac{pT^2}{f^3}$	Megfelelő hőtartalom	$\frac{T}{T_1}$ értéke	$\frac{T}{T_1}$ megfelelő hőtartalom	Diff.
t	T	p	f.		t'	T'	t', T'	t'-t'
-20	253	5,79	3,501	8,636 m.	-64	209	-60 213	-4
+20	293	75,65	2,923	259,5 m.	-26	247	-25,3 247,7	-0,7
+60	333	390,1	2,382	3200 m.	+8,5	287,5	+8,2 287,2	+0,3
+100	373	1340,	1,873	28373 m.	+41	314	+42 315	-1
+140	413	3520	1,397	220220 m.	+74	347	+75,8 348,8	-1,8
+170	443	6340	1,061	1041700 m.	+99	372	+101 374	-2

8. Chloroethyl C_2H_5Cl

p gőzfeszítő Landolt - Regnault

f. Saját iszotermiáért $\alpha_s = 2,064$ $\alpha_{36} = 1,725$ tehát $\frac{\alpha_s}{\alpha_{36}} = 0,0112$

$\frac{p}{T}$ egyenértékű a kritikus hőfoknál állandósul kintre kijö 188° nálola
 $\frac{p}{T^2}$ törvénye csak 185, kritikus hőfoknál $\frac{p}{T^2} = \text{const}$ is van

$$f = 2,132 - 0,0112t$$

$t = 36$ $p = 1695$ $p_{36} = 1,725$ iszotermiás körülmények

$$\frac{T}{T_1} = 0,978$$

Flömierek		Gőzfeszítő	Iszotermiás	$\frac{p}{T^2}$	Megjelölt hőfok	$\frac{T}{T_1}$ iszotermiás körülmények	Diff.	$\frac{T}{T_1}$		
t	T	p	f	f ³	t'	T'	t'-t'			
-20	253	187,6	2,358	916 m	-9	264	-14,3	258,7	+5,3	0,958
+20	293	996,2	1,906	12351 "	+28	301	+26,6	299,6	+1,4	
+60	333	3400,5	1,454	122830 "	+64,5	337,5	+7,2	345	-7,5	
+100	373	8722,8	1,002	1,203 100 "	+107	374	+108,4	381,4	-7,4	0,997

9. Aceton C_3H_6O

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p gőzfeszítő Landolt - Regnault.

f. Saját iszotermiáért: Adatok: $\alpha_s^2 = 6,289$, $\alpha_{56,1}^2 = 5,189$ Aceton sűrűsége

Landolt - Landolt szerint $\beta_0 = 0,815$, ahogy Kopp Landolt kiegészítéssel néve

$\beta_s = 0,8095$, $\beta_{56,1} = 0,7505$ tehát $\alpha_s = 2,587$, $\alpha_{56,1} = 1,947$ tehát $\alpha_0 = 2,650$ $\alpha_{56} = 1,898$

ahogy néve $\alpha_{240} = 0$ képpen:

$$f = 2,650 - 0,013t + 0,0000083t^2$$

$t = 56,1$ $p_{56,1} = 754,2$ $p_{56,1} = 1,947$ iszotermiás körülmények

$$\frac{T}{T_1} = 1,097$$

Flömierek		Gőzfeszítő	Iszotermiás körülmények	$\frac{p}{T^2}$	$\frac{T}{T_1}$ iszotermiás körülmények	Diff.			
t	T	p	f	t'	T'	t'-t'			
+20	293	179,6	2,392	1126 m.	-6	267	-6	267,0	20
+60	333	860,5	1,900	13912 m.	+30	303	+30,5	303,5	-0,5
+100	373	2797,3	1,433	132260 m.	+65,5	338,5	+67	340,0	-1,5
+140	413	6974,4	0,996	1,204 000 m.	+107	374	+107	374	-2,5

4. Alkohol. C_2H_6O

$T_k = 224,3$ Sajótschewsky is Hanning, 240,6 Strauss

Göppert Landolt Regnault.

Feltöltési egyenlet Σ .

$6^\circ \text{ra} \quad f_6 = 2,426$

$22^\circ \text{ra} \quad f_{22} = 2,205$

$46^\circ \text{ra} \quad f_{46} = 2,077$

erősség $f_0 = 2,489 \quad f_{50} = 2,041$ értéket $i_{122} = 0$ al empirikus

formula:

$$f = 2,489 - 0,00852 t - 0,0000088 t^2$$

$t = 50 \quad T = 323 \quad f = 2,041 \quad p = 219,9$ értéket körkörös

50 phaz $A = \frac{p T^2}{f^2} = 2698 \times 1000$

Esperint Alkohol 50 phaz megjel. Aether 6° vágja.

$$\frac{T}{T_e} = \frac{323}{279} = 1,158$$

Spinnit $\frac{T}{T_e} = 1,158$ értéket.

Methyl-äther				Nymphen						A-äther
Aether		Alkohol		Aether		Alkohol		$\frac{p}{p_e}$	A_{aether}	A_{alkohol}
t	T	t	T	p _e	p	p _e	p			
-20	253	20	293	68,9	44,5	0,646	398,8 m	307,9 m	-22	
0	273	43,1	316,1	184,4	157	0,851	1751, m	1682, m	-0,4	
50	323	101	374,0	1264,8	1756	1,39	50102 m	67383 m	54	
100	373	158,9	431,9	4953,3	9100	1,84	1474800 m	2,238000 m	107	
190	463	263,1	536,1							
195,5	468,5	269,5	542,5							

Al Alkohol értéket f hőmérséklet értékeit empirikus

$\alpha_{20} = 2,315 \quad \alpha_{43,1} = 2,105 \quad \alpha_{101} = 1,539 \quad \alpha_{158,9} = 0,912$

Sajatschewsky értékei Aethere $T_k = 463$, $t = 190$
 Alkoholon $T_k = 507,3$ $t = 234,2$

Abbát

$$\frac{T}{T_e} = 1,095$$

Mérőfelő hőmérsék.		Mérőfelő		Mérőfelő		$\frac{p}{p_e}$
Aether	Alcohol	Aether	Alcohol	Aether	Alcohol	
t	T	p_e	p	p_e	p	
-20	253	+4	277	68,9	16,6	0,241
50	323	80,7	353,7	1264,8	835	0,660
100	373	135,4	408,4	4953,3	5018	1,01
190	463	234,3	507,3	36,9 atm.	62,1 km.	1,68

+) Kritikus nyomásuk Sajatschewsky által

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Értékelés megismerés. II

10. Tetra chlor Kohlenstoff. CCl₄.

p. Gőpfűző Lendek, Renault.

f. Schiff és kőszívűt és pedig $t_{75,2}$ fűző $f = 2,040$, tovább $t_{75,2}$
 $d^2 = 0,600$ míg $d_{75,2} = 1,612$ Lendek, Pierre szívűt míg hűző $f_{75,2} = 2,902$ a míg
 és kőszívűt $\frac{df}{dt} = -0,0128$ evvel $f_0 = 3,000$ $f_{100} = 1,723$ és $f_{75,2} = 0$ kőszívűt
 Kerék:

$$f = 3,000 - 0,0128t + 0,0000106t^2$$

$t = 75,2$ $p = 751,4$ $f = 2,040$ és kőszívűt míg hűző

$$\frac{T}{T_1} = 1,163$$

Flömségek		Gőpfűző	Kőszívűt	$\frac{p T^2}{f^3}$	Megfűző hűző hűző		$\frac{T}{T_1}$ értékek és mérték		Diff
t	T	p	f	$\frac{p T^2}{f^3}$	t'	T'	t'	T'	t'-t'
20	293	301,0	2,728	386 m.	-20,5	252,5	-21	252	+0,5
60	333	447,4	2,208	4600 m.	+14	287	+13,4	286,4	+0,6
100	373	1467,1	1,723	40200 m.	+46,5	319,5	+47,7	320,7	-1,2
140	413	3709,0	1,272	207000 m.	+79,5	352,5	+82	355	-2,5
180	453	7923,6	0,854	2,520 000 m.	+112,5	385,5	+116,5	389,5	-4,0

5. Eretsas $C_2H_4O_2$

Közlem. Füzet. T. 321,5 Pawlowsky Beiblätter 1884 N. 3
Göppert Landolt, Reymann

Titulati fűzők megkötésére.



Eretsas egy nőben megkötés helyén átmérője 22 m.m.

Ebbe bevezet a a capillaris c ö kőrő átmérője 6 m.m.

helyén átmérője v úgys $= 1,4562$ m.m. 10 Kathetometeres
címkés és ellenőrző kiegészítést készítették, elapján.

a cő átmérője v úgys 252 milliméterre $1,4438$

b pont alka hat a mérés a capillarisban előáll
 v -tál 28 milliméterre van a pont az címkés része az átmérő

$$2r = 1,4562 - \frac{28}{252} (1,4562 - 1,4438) = 1,455 \quad r = 0,7275$$

$$a^2 r a \text{ az in formula } a^2 = rh \left(1 + \frac{1}{3} \frac{r}{h} - \frac{1}{9} \frac{r^2}{h^2}\right) \text{ vagy } a^2 = rh \left(1 + \frac{1}{3} \frac{r^2}{a^2}\right)$$

Építész.

Thermia Közvetlen hőmérséklet közvetlen - 2 tál + 2 Körül $t = 0$ h 100 milliméterben	Glycerines vízhő $t = 22,2$ h 100 milliméterben	Forró alkoholban $t = 80$	Forró glycerines vízhő $t = 120^\circ$
	1390	1155	1015
	1388	1150	1010
1480	1391	1157	1015
1480	1390	1165	1008
1470	1388	1165	1017
1470	1392	1166	1006
	1390	1177	1018
	1395	1181	1007
	1390	1195	1015
	1390	1180	1005
Közép 1475	1390,5	1166	1011,6
$h_0 = 7,375$	$h_{22,2} = 6,9525$	$h_{80} = 5,830$	$h_{120} = 5,058$
$a^2 = 5,537$	$a_{22,2}^2 = 5,230$	$a_{80}^2 = 4,411$	$a_{120}^2 = 3,680$

$$a_0^2 = 5,537, \quad a_{22,2}^2 = 5,230, \quad a_{80}^2 = 4,411, \quad a_{120}^2 = 3,680$$

$$\frac{da^2}{dt} = 0,0134, \quad \frac{da^2}{dt} = 0,0142, \quad \frac{da^2}{dt} = 0,0182$$

Központi értékére $s_0 = 1,08005$ (Fehér 2. 19. III, 28)
 Járás 117°

$$V = 1 + 0,00105703t + 0,00000018322t^2 + 0,000000009695t^3$$

e unit

$$s_0 = 1,0800, \quad s_{22,2} = 1,0605, \quad s_{80} = 0,9908, \quad s_{120} = 0,9424$$

$$\alpha_0 = 2,989, \quad \alpha_{22,2} = 2,772, \quad \alpha_{80} = 2,185, \quad \alpha_{120} = 1,734$$

$$\frac{d\alpha}{dt} = 0,0096, \quad \frac{d\alpha}{dt} = 0,0102, \quad \frac{d\alpha}{dt} = 0,0113$$

Empirikus formula $\alpha_0 = 2,990$ $\alpha_{120} = 1,734$ és $\alpha_{220} = 0$ értékek
 értékek között.

$$\alpha = 2,990 - 0,0111t + 0,0000056t^2 \quad \text{kipróbált}$$

Spánia $t=120$ $T=393$ $p=787,1$ $f=1,734$ értékek

$$120 \text{ fok} \quad \frac{p}{f^3} = 23139 \times 1000.$$

Lehet mégis az $\alpha_{80} = 38$, $T=311$ vagy

vagyis mégis $\frac{T_r}{T} = 1,458$ értékek $T=453,4$ $t=180,4$

$$\text{Ered. érték} \quad \frac{T}{T_e} = 1,264$$

$$\frac{T}{T_{120}} = 0,867$$

Nyomtatás összehasonlítása

Aether		Eretnav		Nyomtatás		$\frac{p}{p_e}$
t	T	t	T	p_e	p_e	
-20	253	46,8	319,8	68,9	58	0,842
+10	283	84,6	357,6	286,8	240,5	0,839
+50	323	135,3	408,3	1264,8	1245	0,984
190	463	312,2	585,2			
195,5	468,5	319,1	592,1			

$\frac{p\sigma}{f^2}$ birim vuzg'atı.

Evet, av.		Myşkelö' hışp		Evet, av.		Aster		$\frac{p\sigma}{f^2}$		$\frac{p\sigma}{f^2}$	
Chlorophyll		Aster		$\frac{p\sigma}{f^2}$		$\frac{p\sigma}{f^2}$		$\frac{p\sigma}{f^2}$		$\frac{p\sigma}{f^2}$	
t		t		t		t		t		t	
0		4,8		20,77 x 1000		16,95		44			
35		82,1		192,0 x 1000		192 x 1000		82,1			
70		-1,7		1488 x 1000		1444 x 1000		-2			
105		26		10293 x 1000		10460 x 1000		26,2			
140		59,7		66326 x 1000		63363 x 1000		59,1			

$$\mu = 59,86$$

0°	40°	80°	120°
d = 2,989	d = 2,591	d = 2,185	d = 1,734
s = 1,0800	s = 1,0359	s = 0,9908	s = 0,9424
$\sqrt{\frac{m}{s}} = 1 = 3,8127$	1 = 3,8661	1 = 3,9239	1 = 3,9899
d1 = 11,3963	d1 = 10,0171	d1 = 8,5757	d1 = 6,9186
§ formülatai vuzg'atı			
d = 2,989	d = 2,565	d = 2,146	d = 1,724
d1	d1	d1	d1
11,3963	9,9166	8,4207	6,9186
diff. 1,4797	1,4959	1,5021	
$\frac{d\mu}{ds} = 0,03832$	$\frac{d\mu}{ds} = 0,03740$	$\frac{d\mu}{ds} = 0,03754$	
0,03899	9,		
0,03696			

ha terim a hışpı hışpı cöşüm 221 $T = 594$ $\frac{T_0}{T_{\text{Aster}}} = 1,209$

80 pñat myşkel + 12° — 0,03026 — 0,2385 — 0,03005 — 21

120 pñat myşkel + 44° — 0,02200 — 0,1761 — 0,02218 — 18

40 pñat myşkel - 20 — 0,04036 — 0,03168 — 0,03992 — 44

$\mu = C_1 d_2 O_2$ $= 120$

Anyag neve	Hőmérséklet		vegyi formula	Tömeg- súly μ	Sűrűség δ	$\frac{\mu}{\delta}$	$\lambda = \sqrt[3]{\frac{\mu}{\delta}}$	f	$10000 \times \frac{\lambda}{\mu}$ $= 10000 \frac{\sqrt[3]{\mu}}{\mu}$
	t	T							
Chloroform	60	333	CHCl_3			84,6	4,387	2,21	291
Szén kénes	40	313	CS_2			61,8	3,953	3,07	387
Áethyl alcohol	78	351	$\text{C}_2\text{H}_6\text{O}$			62,2	3,961	1,76	199
Víz	96	369	H_2O			18,7	2,655	6,06	435
Benzol	80	353	C_6H_6			95,9	4,577 4,577	2,13	276
Esterum, Aethyl	75	348	$\text{C}_4\text{H}_8\text{O}$			105,7	4,742	1,77	270
Esterum, Methyl	55	328	$\text{C}_3\text{H}_6\text{O}_2$			83,7	4,374	2,01	268
Glazgar. Aethyl	54	327	$\text{C}_3\text{H}_6\text{O}_2$			84,6	4,387	1,98	266
Chlor Aethyl	36	309	$\text{C}_2\text{H}_5\text{Cl}$			74,4	4,202	1,72	234
Aceton	56	329	$\text{C}_3\text{H}_6\text{O}$			77,1	4,256	1,95	252

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Meyfeleto Aether hö/p _h		\overline{P}	Dyktet kät hö/p _h		$\frac{T_e}{T_e'}$	Sjämickä kät. hö/p _h Äther $t_0' = 190$		Kütlöy	Sjämickä kät. hö/p _h Äther $t_0' = 195$		Älörig
t'	P'	\overline{P}'	t_e	T_e	$\frac{T_e}{T_e'}$	t_1	T_1	$t_1 - t_e$	t_2	T_2	$t_2 - t_e$
16	289	1,152	260 S.	533		260	533	0	266	539	+6
-15	258	1,213	272 S.	545		289	562	+17	295	568	+23
+53	326	1,077	234 S.	507		226	499	-8	232	505	-2
-30	243	1,574	411 C	684		428	701	+17	436	709	+25
22	292	1,205	280,6	553,65		284,9	557,9	+4,3			
36	309	1,126	258,5	524,5		248,4	521,4	-8,1			
25	298	1,107	259,8	512,8		236,8	509,8	-3			
26	299	1,097	238,6	511,6		235	508,0	-3,6			
38	311	0,993	182,6	455,6		186,8	459,8	+4,2			
30	303	1,086	222,8	505,8		230,8	503,8	-2			

Aether.

$$c \frac{\sigma}{\delta}$$

Letztlich
5 a) γ p. m. v. m. e

1 a julyndes dierige

蘇

$$\frac{\mu p}{s T}$$
$$\mu = 74$$

$$S_0 = 0,736 \text{ LB}$$

$$s_0 = 0,736 \text{ dB} \quad s = s_0(1 - 0,00215t) = 0,736 - 0,00158t$$

t	T	s	p	μp	sT	$\frac{\mu p}{sT}$	$\frac{s}{p}$
-20	253	0,768	68,9	5098,6	194,3	26,28	-7,48
-15	258	0,760	89,3	6608,2	196,1	33,76	-9,11
-10	263	0,752	114,7	8487,8	198,8	42,87	-11,46
-5	268	0,744	146,1	10871,4	199,4	54,33	-13,56
0	273	0,736	184,4	13645,6	200,9	67,89	-16,70
5	278	0,728	230,9	17086,6	202,4	84,59	-19,91
10	283	0,720	286,8	21223,2	203,8	104,0	-23,6
15	288	0,712	353,6	26166,4	205,1	127,6	-27,9
20	293	0,704	432,8	32027,2	206,43	155,5	-32,5
25	298	0,696	525,9	38916,6	207,5	188,0	-36,8
30	303	0,689	634,8	46975,2	208,6	224,8	-43,4
35	308	0,681	761,2	56928,8	209,6	268,2	-49,9
40	313	0,673 0,673	907,0	67118,0	210,5	318,1	-58,6
45	318	0,665	1074,1	79483,4	211,3	376,7	-64,8
50	323	0,657	1264,8	93595,2	212,7	441,5	-73,1
55	328	0,649	1487,1	109607,4	212,8	574,6	-84,7
60	333	0,641	1725,0	127650,0	213,4	599,3	

Atmos.

$$\lambda = 1986 - 0,0721t$$

$$\lambda = \sqrt{\frac{r}{\lambda_0}} = \sqrt{\frac{r}{r_0}} \frac{\lambda_t}{\lambda_0} \quad \frac{\lambda_t}{\lambda_0} = 1 + \alpha t \quad \alpha = 0,00072$$

t	r	λ	$\lambda = \sqrt{\frac{r}{\lambda_0}} \frac{\lambda_t}{\lambda_0}$	$\frac{\lambda_t}{\lambda_0}$	$\frac{\lambda_t}{\lambda_0}$	$1000000 \frac{\lambda_t}{\lambda_0^2}$
-20	252	2,228	0,9856 0,9856	0,0403596	0,0015396	1539,6
-15	258	2,168	0,9892	0,0386423		652,7
-10	263	2,107	0,9928	0,0369846	0,00088689	886,9
-5	268	2,047	0,9964	0,0353890		388,8
0	272	2,986	1,0000	0,0338273	0,00049810	498,1
+5	278	1,926	1,0036	0,0327313		201,2
+10	283	1,865	1,0072	0,0308645	0,00029686	296,9
+15	288	1,804	1,0108	0,0294416		15,8
+20	292	1,744	1,0144	0,0280763	0,00018111	181,1
+25	298	1,683	1,0180	0,0267342		68,5
+30	303	1,623	1,0216	0,0252886	0,00011260	112,6
+35	308	1,562	1,0252	0,0241787		40,2
+40	313	1,502	1,0288	0,0224566	0,000072360	72,4
+45	318	1,441	1,0324	0,0217539		25,4
+50	323	1,381	1,0360	0,0205969	0,000047049	47,0
+55	328	1,320	1,0396	0,0194544		

Angew. neue	Klimesis		f	l	fd	Erlöse und Kosten		$t_e - t$	$\frac{fd}{t_e - t}$	
	t	T				t_e	T_e			
Isomylformiat	123	296	1,540	5,351	8,240	304	577	181	0,0455	
Propylacetat	102	375	1,592	5,046	8,040	282	555	180	0,0447	
Isobutylacetat	113	385	1,489	5,320	7,927	296	569	183	0,0433	
Methylpropionat	80	353	1,806	4,708	8,503	263	536	183	0,0464	0,218
Äthylpropionat	99	372	1,584	5,027	7,942	280	553	187	0,0429	
Propylpropionat	122	395	1,461	5,220	8,720	305	577	183	0,0477	
Isobutylpropionat	137	410	1,324	5,577	7,384	319	592	182	0,0406	0,207
Äthylbutirat	119	392	1,454	5,316	7,729	304	577	185	0,0418	
Propylbutirat	144	417	1,250	5,587	7,534	327	600	183	0,0412	
Methylisobutyrat	92	365	1,595	5,018	8,004	274	547	182	0,0440	0,220
Äthylisobutyrat	110	383	1,418	5,320	7,544	290	563	180	0,0419	0,224
Propylisobutyrat	135	408	1,219	5,584	7,365	316	589	181	0,0406	0,227

Angew. neue	Stöms		f	l	fl	Endlich- höp		te-t	fl te-t	
	t	T				te	Te			
Chloroform	60,6	333,6	2,21	4,3891	9,6997	260 S	533	199,4	0,0486	0,215
Spir. kienig	40	313	3,07	3,953	12,136	272 S	545	232	0,0523	0,207
Aethylalcohol	78	357	1,76	3,961	6,971	234 S	507	156	^{0,044} 0,042	—
W.	96	369	6,06	2,655	16,089	411 C.	683	315	0,0511	—
Spir. dioxyd	30,6	242,4	0,965	3,464	3,343	32 Sa	305	62,6	0,0534	—
Kienessenz	19	292	2,15	3,593	7,725	155,4 S	428,4	126,4	0,0566	—
Benzol	80	353	2,13	4,577	9,749	280,6 S	553,6	200,6	0,0486	0,222
Eucalyptus aethyl	75,5	348,5	1,771	4,728	8,373	256,5 P	529,5	187	0,0463	0,219
Eucalyptus aethyl.	55,3	328,3	2,01	4,274	8,792	239,8 P	512,8	184,5	0,0477	0,209
Flanzenessenz aethyl	53,6	326,6	1,976	4,290	8,675	238,6 P	511,6	185	0,0469	0,205
Aethyl ether	0	273	1,986	4,65	9,235	195,5 P	468	135	0,0473	—
	50	323	1,281	4,83	6,670	"	"	145	0,0460	—
	0			4,65	9,235	190 S		190	0,0486	0,225
	50			4,83	6,670	190 S.		140	0,0477	0,229
Chloroethyl	36	309	1,725	4,205	7,254	182,6 S	455,6	146,6	0,0495	—
Aceton	56,1	329,1	1,947	4,255	8,284	232,8 S	505,8	176,7	0,0469	0,196
Benzol	6,7	279,7	3,008	4,438	13,35	289,6 S	55,6	$\frac{13,35}{73,3} = 0,0452$	—	—
Eucalyptus aethyl	6,3	279,3	2,576	4,607	11,867	256,5 S	519,5	250,2	0,0475	—
Flanzenessenz aethyl	53,6	326,6		4,697	9,582				0,0474	0,223
Spir. tetrachlorid	75,2	348,2	2,040	4,348	10,910	277,9	550,9	202	0,0474	—
Fetöl	109,8	382,8	1,846	4,759	8,786	320	593	211	0,0416	—
Aethylacetat	15	288	2,428	4,777	11,646	256	509	221	0,0527	—
Fetöl	5,8	278,8	3,058	4,570 13,774	13,974	320	593	317	0,0445	—
Isomylalcohol	131,4	404,4	1,524	4,970	7,624	306	579	175	0,0426	—
Aethylchlorid	82,3	356,3	2,429	4,400	10,692	283	556	200	0,0534	0,235
Alexan	68,1	341,1	1,286	5,188	7,193	250	523	182	0,0595	0,206
Dicarbonyl	107	380	1,205	5,692	6,772	270	524	163	0,0415	0,238
Ammoniak	37	310	1,546 1,286	5,429	8,1395 5,425	207	474	164	0,0450	—
Caprylen	124,6	397,6	1,286	5,617	7,227	299	572	174	0,0411	0,232
Ammoniak	37	310	1,541	4,791	7,383	207	474	164	0,0443	—
Dialllyl	58,4	331,4	1,504	5,070	7,525	224,4	507,4	178	0,0423	—
Caprylen	2	275	2,470	5,337	13,182	299	572	297	0,0444	0,237
Aethylidendichlorid	57,0	330,8	2,052	4,856	9,135	254	507	197	0,0464	—
Propylformiat	82	355	1,811	4,773	8,544	267	540	185	0,0462	—

E. Torricelli. Aether.

- total 40 fehéj

Saját értékeimből $\alpha = 1,986 - 0,0121 t$, p név Landell kővénél volt

t	T $= t + 17,3$	p	α	$\frac{p T^2}{\alpha^3}$	Differentia	2. diff.
-20	253	68,9	2,228	$398,8 \times 1000$	185×1000	
-15	258	89,3	2,168	$583,3 \times 1000$	265×1000	580×1000
-10	263	114,7	2,107	848×1000	374×1000	$109,1 \times 1000$
-5	268	146,0	2,047	1222 " "	529 " "	155 "
0	273	184,4	1,986	1751 " "	747 " "	218
+5	278	230,9	1,926	2498 " "	1043 " "	296
+10	283	286,8	1,865	3541 " "	1455 " "	412
+15	288	353,6	1,804	4996 " "	2041 " "	586
+20	293	432,8	1,744	7037 " "	2760 " "	719
+25	298	525,9	1,683	9797 " "	3867 " "	1107
+30	303	634,8	1,623	13664 " "	5243 " "	1376
+35	308	761,2	1,562	18907 " "	7316 " "	2079
+40	313	907,0	1,502	26223 " "	10077 " "	
+45	318	1074,1	1,441	36300 " "	13802 " "	
+50	323	1264,8	1,381	50102 " "	19178	
+55	328	1481,1	1,320	69280 " "	26344	
+60	333	1725,0	1,260	95624 " "		
+65	338	1998,9	1,199	132485 " "		
+70	343	2304,9	1,139	183514 " "		
+75	348	2645,4	1,078	255737 " "		
+80	353	3022,8	1,018	357040 " "		
+85	358	3439,5	0,957	502950 " "		
+90	363	3898,3	0,897	711720 " "		
+95	368	4401,9	0,836	1,020400 " "		
+100	373	4953,3	0,776	1,474800 " "		

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$d = 1,986 - 0,0126 t + 0,00001252 t^2$ Jönnek { 95°-ra $T=364$ $p=4402$ $\alpha=0,902$ | $\frac{p T^2}{\alpha^3} = 4992 = 732300 \text{ h.}$

Vi.

$$\alpha = 7,688 - 0,01264 - 0,000055 t^2$$

t	T	ρ Zusatz	α	$\frac{\rho T^2}{\alpha^3}$	Masse in g	
0	273	4,660	7,688	0,751 x 1000	-85,7	187,3
5	278	6,534	7,619	1,142 x 1000	-82,3	190,7
10	283	9,165	7,549		-78,9	194,1
15	288	12,699	7,476		-75,5	197,5
20	293	17,291	7,402		-72,1	199,9
25	298	23,550	7,326	5,319 x 1000	-68,6	204,4
30	303	31,548	7,249	7,604 " "	-65,2	207,8
35	308	41,827	7,169	10,77 " "	-61,8	211,2
40	313	54,906	7,088	15,11 " "	-58,4	214,6
45	318	71,390	7,003	21,02 " "	-54,9	218,1
50	323	91,980	6,921	28,95 " "	-51,5	221,5
55	328	117,475	6,834	39,59 x 1000	-48,1	224,9
60	333	148,786	6,746	53,74 " "	-44,6	228,4
65	338	186,938	6,656	72,43 " "	-41,2	231,8
70	343	233,082	6,565	96,92 " "	-37,8	235,2
75	348	288,500	6,471	128,9 " "	-34,4	238,6
80	353	354,616	6,376	170,5 " "	-30,9	242,1
85	358	432,062	6,279	224,2 " "	-27,5	246,5
90	363	525,292	6,181	293,2 " "	-24,1	248,9
95	368	633,692	6,080	381,9 " "	-20,6	252,4
100	373	760,000	5,978	494,9 " "	-17,2	255,8
105	378	906,410	5,874	639,0 " "	-13,8	259,2
110	383	1075,270	5,768	822,0 " "	-10,4	262,6
115	388	1269,410	5,661	1053 " "	-7,0	266,0
120	393	1491,280	5,552	1346 " "	-3,5	269,5
125	398	1742,880	5,441	1715 " "	0	273,0
130	403	2030,280	5,328	2180 " "	+3,4	276,4

Anyag neve	Temperatura		megj. kezelet	limes súly μ	$\frac{\mu}{s} \frac{p}{T}$	megfig. adatok		étterem v. m. hősz. $\left(\frac{dv}{dv} \frac{T}{v}\right)$	a vizsgált anyag v. hősz. $\frac{dv}{dv} \frac{T}{v}$	
	t	T				t'	T'			
H_2	26	299	$2H_2O$	35,92	3,006					
"	100,5	373,5	"	"	77,5	3	276	0,416	0,358	
"	149,5 275	422,5	"	"	328,8	41,5	314,5	0,562	0,408	data point
"	209 17	482	"	"	1217.	88	367	0,845	0,618	
	26		H_2O	17,96	1,503	-				$\frac{T}{21}$
	100,5	373,5	H_2O	"	387,5	-12	261	0,393	0,358	1431
	149,5	422,5	"	"	164,4	+22	295	0,477	0,408	1432
	209	482	"	"	608,5	+62	335	0,680	0,618	1438
<hr/>										
Acetylalcohol	78	351	C_2H_6O	45,9	133,9	16	289	0,456	0,469	
"	"	"	$2C_2H_6O$	91,8	267,8	36	309	0,538		
<hr/>										
Alcohol	60	333	CH_3	119,08	190,9	26	299	0,492	0,456	
Ethylalcohol	75	348	CH_3	153,45 222,8	222,8 275	30,5	303,5	0,511	0,500	
Ethylalcohol	83	356	C_2H_5Cl	98,68	180,2	24,5	297,5	0,489	0,476	

$$d \cdot \frac{d^2}{ds} = C$$

Vir rigne

Von Mops' lab l'atig

Cötus' Eruenpe' Tongzahn

$$C = 11,97 \quad O = 15,96 \quad Cl = 35,37 \quad S = 31,98$$

Aethylaether. C_4

Tömegsúly = 73,84 Sűrűség $\rho = 0,736(1 - 0,001480t + 0,000350t^2 + 0,000000t^3)$

$\rho_0 = 0,736$ " $V = 0,736(1 + 0,001513t + 0,0000236t^2 + 0,000000t^3)$

+ Lappangó hő Régnault adta általános foglalkozási hő $L = 94 +$

Súlyszélesség, cm $f = 1,986 - 0,0021t$ $r = 94 - 0,079t$

Hőmérséklet		ρ	$\frac{\mu}{\rho}$	λ	λ^2	p	f	r	$\frac{\mu}{\rho} \frac{p}{f}$	diff.
t	T									
-20	253	0,768 0,758	96,1	4,580	20,98	68,9	2,228	96,28	26,28	7,48
-15	258	0,760 0,753	97,1	4,596	21,12	89,3	2,168	95,81	33,76	9,11
-10	263	0,752 0,747	98,2	4,613	21,28	114,7	2,107	95,14	42,87	11,46
-5	268	0,744 0,742	99,2	4,629	21,42	146,1	2,047	94,57	54,33	13,56
0	273	0,736 0,736	100,3	4,645	21,58	184,4	1,986	94,00	67,89	16,70
5	278	0,728 0,731	101,4	4,663	21,74	230,9	1,926	93,43	84,59	19,41
10	283	0,720 0,725	102,5	4,680	21,90	286,8	1,865	92,86	104,0	23,6
15	288	0,712 0,720	103,7	4,698	22,07	353,6	1,804	92,29	127,6	27,9
20	293	0,704 0,714	104,9	4,712	22,20	432,8	1,744	91,58	155,5	32,5
25	298	0,696 0,708	106,0 104,3	4,733 4,707	22,40 22,16	525,9	1,683	91,01	188,6 184,1	36,8
30	303	0,688 0,702	107,2 105,2	4,750 4,721	22,56 22,28	634,8	1,623	90,44	224,8 220,5	41,7
35	308	0,681 0,696	108,4 106,1	4,768 4,734	22,73 22,41	761,2	1,562	89,87	268,2 262,5	48
40	313	0,673 0,690	109,7 107,0	4,787 4,747	22,91 22,50	907,0	1,502	89,30	318,1 310,1	54,3
45	318	0,665 0,684	111,0 108,0	4,806 4,762	23,10 22,67	1074,1	1,441	88,73	376,7 364,4	62,3
50	323	0,657 0,678	112,4 108,9	4,826 4,775	23,29 22,80	1264,8	1,381	88,16	441,5 426,7	70,1
55	328	0,649 0,672	113,8	4,845	23,47	1481,1	1,320	87,59	514,6	84,7
60	333	0,641 0,665	115,2	4,866	23,67	1725,0	1,260	87,02	599,3	

$H_{10} 0$

0.04005 t³) Pierrepoint: , a pyramid of Reynault (Randolt 56 layers)
 $+ 0.4500 \text{ t} - 0.0005556 \text{ t}^2$ vald Jyho = $0.524 + 0.0006 \text{ t}$ thid
 $79 \text{ t} - 0.0017556 \text{ t}^2$ or ad 35^m r=90 thid thid $r = 94 - 0.114 \text{ t}$

$\frac{p^2 T}{1000 f^3}$	Diff.	$\frac{1000000}{p \lambda}$	Diff.	$\frac{10000 \lambda^2}{T}$	Diff.	$\frac{\mu r}{T}$	
108,8	) 93	7050	) 1780	1850	) 74	28,1	
201,8	) 169	5270	) 1290	1776	) 70	27,4	
370,8	) 294,9	3980 3980	) 1950	1706	) 67	26,7	
665,7	) 513,3	3030	) 720	1639	) 67	26,0	
1179	) 898	2310	) 520	1572	) 48	25,4	42,91
2077	) 1160	1790	) 400	1524	) 78	24,8	
3237	) 2909	1390	) 303	1446	) 64	24,3	
6146	) 4258	1087	) 233	1382	) 59	23,7	
10404	) 6891	854	) 178	1323	) 60	23,1	
17295	) 11332	676	) 139	1263	) 61	22,6	37,29 37,21
28627	) 18068	537	) 107	1202	) 59	22,1	36,15
46695	) 29283	542	) 84	1193	) 57	21,6	34,98
75978	) 46622	430	) 66	1154	) 55	21,1	33,83
122600	) 73600	433	) 53	1136	) 53	20,6	
196200	) 116700	346	) 45	1102	) 54	20,2	
312900	) 182308	349	) 37	1081	) 45	19,8	
495200		280		1044		19,3	

Hörschle				s	$\frac{u}{s}$	λ	λ^2	σ	f
t	r								
-20	253			2,262	82,88	4,360	19,01	0,000	4,475
-10	263			2,241	83,66	4,374	19,13	"	4,329
0	273			2,220	84,43	4,387	19,25	"	4,184
+10	283			2,200	85,21	4,400	19,36	"	4,042
+20	293			2,178	86,07	4,414	19,48	"	3,901
+30	303			2,156	86,93	4,430	19,62	"	3,757
+40	313			2,135	87,79	4,445	19,75	"	3,617
+50	323			2,115	88,65	4,459	19,88	"	3,480
+60	333			2,092	89,60	4,475	20,02	"	3,342
+70	343			2,070	90,55	4,490	20,16	"	3,206
+80	353			2,049	91,49	4,506	20,30	0,001	3,072
+90	363			2,028	92,44	4,522	20,44	0,002	2,940
+100	373			2,006	93,47	4,538	20,60	0,003	2,809
+110	383			1,984	94,50	4,555	20,75	0,003	2,679
+120	393			1,962	95,54	4,572	20,90	0,004	2,551
+130	403			1,941	96,57	4,588	21,05	0,005	2,425
+140	413			1,919	97,69	4,606	21,21	0,006	2,299

thylen bromid. $\mu = 187,46$

p	$\frac{\mu}{s} \frac{p}{\tau}$	$\frac{p^2 \tau}{1000 f^3}$	$1,000,000 \frac{f}{p \lambda}$	$\frac{\lambda^2}{\tau}$	λ^2
1,73	0,5668	0,008449	593300	0,3362	85,07
2,48	0,7889	0,01994	399100	0,3148	82,80
3,92	1,212	0,05726	243300	0,2950	80,53
6,42	1,933	0,1767	143100	0,2765	78,26
10,57	3,105	0,5514	83610	0,2594	75,99
17,20	4,935	1,691	49310	0,2433	73,72
27,49	7,712	4,998	29610	0,2283	71,45
42,99	11,80	14,17	18150	0,2142	69,18
65,75	17,69	38,58	11360	0,2009	66,91
98,36	25,97	100,7	7258	0,1885	64,64
144,02	37,33	250,1	4734	0,1767	62,38
206,58	52,61	609,4	3148	0,1656	60,11
290,43	72,78	1420	2131	0,1557	57,85
401,08	98,96	3205	1466	0,1451	55,58
544,06	132,3	7009	1026	0,1357	53,31
725,77	173,9	14890	728,3	0,1266	51,04
953,00	225,4	30860	523,9	0,1181	48,77

Anyag neve	Temperatures		vegyi képlet	μ	δ	$\frac{\mu}{\delta}$	λ	λ^2	ρ	f	r	$\frac{\mu}{\delta} \frac{\rho}{r}$	Meyfelen's data		$\frac{T}{T'}$
	t	T											t'	T'	
1) Víz	100	373	H ₂ O	17,96	0,9587	18,62	2,650	7,022	760	5,907	537	37,94	-13	260	1,435
"	100	"	2H ₂ O	35,92	"	37,24	3,389	11,16	"	"	"	75,88	+2	275	1,356
"	0	273	2H ₂ O	"	1	35,92	3,295	10,79				7,617			
2) Hexan ^{S.K.}	68	341	C ₆ H ₁₄	85,82	0,6142	139,72	5,189	26,94	751	1,386		307,7	40	313	1,090
3) Octan ^{S.K.}	107	380	C ₈ H ₁₈	113,76	0,6166	184,49	5,693	32,41	751	1,205		364,6	45	318	1,198
4) Decan ^{S.K.}	159	432	C ₁₀ H ₂₂	141,7	0,6126	231,31	6,138	37,67	751	1,096		402,2	48	320	1,377
5) Amylen ^{S.K.}	37	310	C ₅ H ₁₀	69,85	0,6353	109,95	4,791	22,95	753	1,541	75	267,2	35	308	1,006
6) Caprylen	125	398	C ₈ H ₁₆	111,76	0,6306	177,22	5,677	31,55	770	1,286		342,8	42	316	1,260
7) Diallyl	58	331	C ₆ H ₁₀	87,82	0,6503	125,82	5,010	25,10	752	1,504		285,8	37,5	310,5	1,068
8) Benzol	80	353	C ₆ H ₆	77,82	0,8711	95,94	4,578	20,96	764	2,127	94	207,6	28	301	1,173
9) Toluol	110	383	C ₇ H ₈	91,79	0,7780	117,97	4,905	24,06	759	1,846		234,1	32	308	1,260
10) Xylol (ortho)	141	414	C ₈ H ₁₀	105,76	0,7559	139,91	5,191	26,95	756	1,677		255,6	34	307	1,349
11) Xylol (meta)	139	412	C ₈ H ₁₀	105,76	0,7571	139,67	5,188	26,91	760	1,679		256,4	34	307	1,342
12) Xylol (para)	138	411	C ₈ H ₁₀	105,76	0,7543	144,20	5,244	27,50	761	1,670		267,0	35	308	1,334
13) Ethyl benzol	136	409	C ₈ H ₁₀	105,76	0,7611	138,95	5,180	26,83	738	1,710		250,8	33	306	1,336
14) Propyl benzol	159	432	C ₉ H ₁₂	119,73	0,7399	161,82	5,449	29,69	750	1,561		280,9	37	310	1,398
15) Ethyl toluol	162	435	C ₉ H ₁₂	119,73	0,7393	161,95	5,451	29,71	761	1,546		283,4	37	310	1,403
16) Mesitylen	165	438	C ₉ H ₁₂	119,73	0,7372	162,40	5,456	29,77	762	1,506		282,5	37	310	1,413
17) Cymol	176,2	449	C ₁₀ H ₁₄	133,7	0,7248	184,46	5,692	32,40	769	1,391		316,0	41	314	1,430
18) Methylalcohol	64	337	CH ₄ O	31,93	0,7475	42,71	3,495	12,21	756	1,909		95,8	75	280,5	
19) Ethylalcohol	"	"	2CH ₄ O	2x								191,6	26	299	
20) Propylalcohol	78	351	C ₃ H ₈ O	45,9	0,7381	62,18	3,962	15,70	756	1,765		133,9	16	289	1,214
"	"	"	2x C ₂ H ₆ O	2x 45,9								267,8	36	309	1,136
21) Isopropylalcohol	97	360	C ₃ H ₈ O	59,87	0,7365	87,28	4,332	18,77	752	1,762		169,8	22,5		
"	"	"	2x	2x								339,6	42,5		
22) Isobutylalcohol	87	354	C ₄ H ₁₀ O	59,87	0,7329	87,69	4,343	18,87	753	1,702		173,8	23,5		
"	"	"	2x	2x								347,6	44		
23) Isobutylalcohol	106	379	C ₄ H ₁₀ O	73,84	0,7265	101,63	4,667	21,78	754	1,604		202,1	27		
"	"	"	2x	2x								404	49		
24) Isobutylalcohol	131	404	C ₅ H ₁₂ O	87,81	0,7154	122,74	4,968	24,68	768	1,524		232,2	31		
"	"	"	2x	2x								466,4	52		
25) Dimethylalcohol	120	393	C ₅ H ₁₂ O	87,81	0,7241	121,26	4,950	24,50	763	1,550		235,5	32		
"	"	"	2x	2x								471,0	53		
26) Allylalcohol	96	369	C ₃ H ₆ O	57,87	0,7809	74,10	4,200	17,64	753	1,955		151,2	19		
"	"	"	2x	2x								302,4	39		

$p^2 T$ 1000 $\frac{1}{3}$	Meyfelle's Actual Temp.		$\frac{T}{T_2}$	1,000,000 $\frac{1}{p \lambda}$	Meyfelle's Actual Temp.		$\frac{T}{T_3}$	10000 $\frac{1}{T}$	Meyfelle's Actual Temp.		$\frac{T}{T_4}$	$\frac{\mu r}{T}$	r
t_1'	T_1'	T_2'	T_2'	t_2'	T_2'	T_3'	T_3'	t_3'	T_3'	T_4'	T_4'	T_4'	T_4'
1044	-1	272	1,371	2933	-5	268	1,392	1116	34	307	1,215	28,6	41,51
"	"	"	"	2323	0	273	1,366	1768	-14	259	1,440		65,96
													82,30
72220	39	312	1,093	355	40	313	1,090	1096	39	312	1,093		37,42
122400	45	318	1,195	282	45	318	1,195	1028	45 42	318 316	1,195 1,202		39,05 3
185000	49	322	1,373	237	49	322	1,373	956	53 52	326 325	1,328 1,328		41,32 4
48024	35	308	1,006	427	35	308	1,006	1141	35 36	308 309	1,006 1,006	16,7	35,37 5
110920	43	316	1,260	297	44	317	1,257	1019	44 42	315 315	1,257 1,262		40,57 6
55020	37	310	1,068	399	37	310	1,068	1140	35 27	308 310	1,068 1,068		37,75 7
21400	27	300	1,177	608	27,5	300,5	1,175	1263	24 25	297 298	1,189 1,189	20,8	44,58 8
35073	32	305	1,254	496	32	305	1,254	1160	32,5 35	305,5 308	1,252 1,252		44,41 9
50160	36	309	1,340	427	35	308	1,344	1091	39 41	318 318	1,327 1,319		45,89 10
50036	36	309	1,334	427	35	308	1,338	1097	38 40	318 318	1,325 1,316		45,19 11
57530	36	309	1,330	418	36	309	1,330	1117	37 39	318 318	1,317 1,317		45,92 12
44548	34	307	1,332	447	34	307	1,332	1122	36 37	309 310	1,323 1,319		45,88 13
63900	38	311	1,389	382	37,5	310,5	1,387	1073	40 43	313 316	1,386 1,387		46,36 14
69370	39	312	1,394	373	38	311	1,399	1055	42	315	1,387		45,93 15
73690	40	313	1,399	362	41	314	1,395	1025	45	318	1,377		44,88 16
98600	42	315	1,425	318	42	315	1,425	1004	47	320	1,403		45,07 17
28034	30	303		722	24	297		691	80	353			23,31 18
28034	30	303		573	29	304		1099	38	311			37,02
36472	32			589	28			790	70				27,78
"	32			468	34			1254	25				43,99
37218	32,5			541	30			919	57,5				33,07
"	32,5			429	35			1459	11				52,50
40710	32			520	31			909	59				32,18
"	32			413	36			1445	10				57,16
32800	31			455 469	34 33			922	57				34,93
"	31			361 372	39 37			1466	9				35,54
66027	38			402	37			938	55				37,90
"	38			319	42			1491	7				60,26
63280	38			410	36			966	51				37,97
"	38			325	42			1526	4				60,42
28000	30			618	27			934	54				34,49
"	30			490	32,5			1485	7,5				54,84

Anzahl neue	Temperatur		vegg. Kipfel	μ	s	$\frac{\mu}{s}$	λ	λ^2	p	f	r	
	t	T										
26) Chloroform ^H (Schiff'schleim)	61	334	CHCl_3	119,08	1,4081	84,56	4,390	1,927	753	2,210		1
" " " " " " " "	60	333	"	"	1,4150	84,15	4,381	19,19	755,4	2,194		1
" " " " " " " "	20	293	"	"	1,491	79,87	4,307	18,55	160,5	2,766		
27) Sientetrachlorid ^H	75	348	CCl_4	153,45	1,4802	103,66	4,697	22,06	751	2,040		2
" " " " " " " "	35	308	"	"	1,559	98,43	4,616	21,31	175,5	2,538		
28) Äthylenchlorid ^H	83	356	$\text{C}_2\text{H}_4\text{Cl}_2$	98,68	1,4576	85,24	4,401	19,37	753	2,429		1
29) Äthylidenchlorid ^H	57	330	$\text{C}_2\text{H}_4\text{Cl}_2$	98,68	1,1141	88,56	4,457	19,87	757	2,052		2
30) Propylchlorid ^H Keton	47	320	$\text{C}_3\text{H}_7\text{Cl}$	78,28	0,8561	91,43	4,505	20,30	765	1,866		2
31) Aceton ^a	56	329	$\text{C}_3\text{H}_6\text{O}$	57,87	0,7506	77,08	4,256	18,11	754	1,947		1
32) Paraldehyd ^a	124	397	$\text{C}_6\text{H}_{12}\text{O}_3$	131,7	0,8707	150,74	5,222	28,32	751	1,542		2
33) Diäthylacetal ^{2. T}	103	370	$\text{C}_6\text{H}_{14}\text{O}$	101,78	0,7363	159,90	5,427	29,45	753	1,346		3
34) Dimethylacetal ^{2. T}	63	336	$\text{C}_4\text{H}_{10}\text{O}_2$	89,80	0,8013	110,81	4,803	23,07	755	1,639		2
35) Diäthyläther ^{2. T}	35	308	$\text{C}_4\text{H}_{10}\text{O}$	73,84	0,6950	106,24	4,735	22,42	762	1,571		2
36) Äthylformiat ^{0. E.}	54	327	$\text{C}_3\text{H}_6\text{O}_2$	73,83	0,873	84,57	4,390	19,27	757	1,976		1
37) Propylformiat ^{0. E.}	83	356	$\text{C}_4\text{H}_8\text{O}_2$	87,80	0,8075	108,73	4,773	22,78	763	1,871		2
38) Isobutylformiat ^{0. E.}	98	371	$\text{C}_5\text{H}_{10}\text{O}_2$	101,77	0,7784	130,74	5,076	25,76	747	1,615		2
39) Isoamylformiat ^{0. E.}	123	396	$\text{C}_6\text{H}_{12}\text{O}_2$	115,74	0,7554	153,21	5,350	28,62	748	1,540		2
40) Methylacetat ^{0. E.}	55	328	$\text{C}_3\text{H}_6\text{O}_2$	73,87	0,8825	83,66	4,374	19,18	759	2,010		1
41) Äthylacetat ^{0. E.}	75	348	$\text{C}_4\text{H}_8\text{O}_2$	87,84	0,7200	105,70	4,727	22,34	755	1,771		2
42) Propylacetat ^{0. E.}	102	375	$\text{C}_5\text{H}_{10}\text{O}_2$	101,77	0,7916	128,56	5,047	25,47	760	1,592		2
43) Isobutylacetat ^{0. E.}	113	386	$\text{C}_6\text{H}_{12}\text{O}_2$	115,74	0,7589	150,51	5,319	28,29	760	1,489		2
44) Isoamylacetat ^{0. E.}	140	413	$\text{C}_7\text{H}_{14}\text{O}_2$	129,71	0,7429	174,59	5,589	31,23	758	1,381		3
45) Methylpropionat ^{0. E.}	79	352	$\text{C}_4\text{H}_8\text{O}_2$	87,80	0,8422	104,24	4,707	22,16	757	1,806		2
46) Äthylpropionat ^{0. E.}	99	372	$\text{C}_5\text{H}_{10}\text{O}_2$	101,77	0,7960	127,83	5,037	25,37	753	1,584		2
47) Propylpropionat ^{0. E.}	122	395	$\text{C}_6\text{H}_{12}\text{O}_2$	115,74	0,7680	150,70	5,321	28,31	754	1,461		2
48) Isobutylpropionat ^{0. E.}	137	410	$\text{C}_7\text{H}_{14}\text{O}_2$	129,71	0,7474	173,54	5,578	31,11	763	1,324		3
49) Isoamylpropionat ^{0. E.}	160	433	$\text{C}_8\text{H}_{16}\text{O}_2$	143,68	0,7295	196,95	5,818	33,85	752	1,262		3
50) Methylbutyrat ^{0. E.}	102	375	$\text{C}_5\text{H}_{10}\text{O}_2$	101,77	0,8054	126,35	5,018	25,18	763	1,625		2
51) Äthylbutyrat ^{0. E.}	119	392	$\text{C}_6\text{H}_{12}\text{O}_2$	115,74	0,7703	150,25	5,317	28,27	750	1,454		2
52) Propylbutyrat ^{0. E.}	143	416	$\text{C}_7\text{H}_{14}\text{O}_2$	129,71	0,7461	173,85	5,580	31,14	763	1,350		3
53) Isobutylbutyrat ^{0. E.}	157	430	$\text{C}_8\text{H}_{16}\text{O}_2$	143,68	0,7269	197,66	5,825	33,93	763	1,221		3
54) Methylisobutyrat ^{0. E.}	92	365	$\text{C}_5\text{H}_{10}\text{O}_2$	101,77	0,8049	126,43	5,018	25,18	761	1,595		2

$\frac{\mu}{\rho}$	$\frac{p}{T}$	megfelelő Arthu. Temp.	$\frac{T}{T_1}$	$\frac{pT}{1000 f^3}$	megfelelő Arthu. Temp.	$\frac{T}{T_2}$	$\frac{1,000000}{\rho} \times \frac{f}{p \lambda}$	megfelelő Arthu. Temp.	$\frac{T}{T_3}$	$\frac{10000}{10000} \frac{f^2}{T^2}$	megfelelő Arthu. Temp.	$\frac{T}{T_4}$	$\frac{\mu}{T}$	$\frac{f}{\lambda}$
190,6	26	299		17545	25	298		669	25,5	298,5	1275	23	296	42,59
190,9	26	299	1,1140	17993	25,4	298,4	1,116 $T=14,2$	663	25,6	298,6	1264	24	297	42,10
43,73	-9,7	263,3	1,1132	356,7	-10,3	262,7	1,111 $T=24,4$	4001	-10	263	1751	-13	260	51,31
223,8	30,5	303,5	1,147	23118	27	300		578	28,5	301,5	1296	30	303	45,00
56,08	-4,4	263,6	1,147	580,2	-6	267		3135	-5,6	267,4	1756	-13	260	54,08
180,3	24,5	297,5	1,197	14080	23			733	23		1321	20		47,05 28
203,1	28	301	1,096	21920	28			608	27,5		1236	26,5		40,77 29
218,6	30	303	1,059	28820	30			542	30		1184	31		37,88 30
176,7	24	297	1,111	25340	29			607	27		1075	40		35,26 31
285,1	37	310	1,280	61080	37,5			383	38		1100	38		43,67 32
320,0	41	314	1,197	87540	41			329	41		1053	43		39,64 33
249,0	33,5	306,5	1,096	42203	34			452	34		1125	36		37,81 34
262,4	35	308	1,000	46120	25			435	35		1143	35,5		35,22 35
195,7	26,5	299,5	1,092	24290	27,5			595	28		1164	32		38,07 36
233,0	32	305	1,167	34890	33			497	32		1159	33		41,25 37
263,2	35	308	1,205	49150	35,5			426	35		1121	36		41,60 38
289,4	37,5	310,5	1,275	60670	37,5			385	37,5		1113	37		44,07 39
193,6	26,5	299,5	1,095	23264	27,5			605	27,5		1170	32		38,45 40
229,3	31	304	1,145	35710	32			496	32		1137	35		39,56 41
260,6	35	308	1,218	53680	36			415	36		1081	40		40,54 42
296	39	312	1,237	67540	39			368	39		1091	39		42,12 43
320,4	41	314	1,315	90080	41,5			326	41,5		1044	43,5		43,13 44
224,1	30,5	303,5	1,160	34240	31,5			507	31,5		1137	35		40,02 45
258,7	35	308	1,208	53080	36			417	36		1080	40		40,18 46
287,7	37,5	310,5	1,272	71970	39			364	39		1047	43		41,36 47
322,9	41	314	1,306	102900	42,5			311	42,5		1004	47		41,19 48
342,1	43	316	1,370	121820	45			288	45		987	49		42,72 49
257	34,5	307,5	1,220	50900	35,5			424	35,5		1091	39		40,91 50
287,3	37,5	310,5	1,262	71700	38,5			364	39		1048	42,5		41,10 51
318,8	41	314	1,325	98450	42			317	42,5		1011	47		42,04 52
350,8	44	317	1,356	132060	45,5			275	45,5		963	51		41,42 53
263,5	35	308	1,185	52100	36			418	36		1100	38		40,16 54

Anyag néve	Temperatura		m _g híglet	μ	δ	$\frac{\mu}{\delta}$	λ	λ^2	ρ	f	r	$\frac{\mu \rho}{\delta T}$	m _g felb ^o Actus Temp.		
	t	T											t'	T'	$\frac{T}{T'}$
55) ^{0.5} Acetylisobutyrat	110	383	C ₆ H ₁₂ O ₂	115,74	0,7681	150,68	5,321	28,31	752	1,418		296,0	39	312	1,227
56) ^{0.5} Propylisobutyrat	135	408	C ₇ H ₁₄ O ₂	129,71	0,7446	174,2	5,585	31,19	760	1,319		324,5	41	314	1,299
57) ^{0.5} Isobutylisobutyrat	149	422	C ₈ H ₁₆ O ₂	139,68	0,7249	198,2	5,830	33,99	759	1,221		356,5	44,5	317,5	1,316
58) ^{0.5} Methylvalerianat	115	388	C ₆ H ₁₂ O ₂	115,74	0,7800	148,32	5,293	28,01	755	1,503		288,6	37,5	319,5	1,250
59) ^{0.5} Acetylvalerianat	133	406	C ₇ H ₁₄ O ₂	129,71	0,7498	172,99	5,572	31,05	758	1,349		323,0	41	314	1,293
60) ^{0.5} Propylvalerianat	155	428	C ₈ H ₁₆ O ₂	143,68	0,7300	196,82	5,816	33,82	760	1,262		349,4	44	317	1,350

$\frac{p^2 T}{1000 f^3}$	megfelelő aktu. Temp.		$\frac{T}{T_1}$	1000000 $\times \frac{t}{p \lambda}$	megfelelő aktu. Temp.		$\frac{T}{T_1}$	10000 $\frac{\lambda^2}{T}$	megfelelő aktu. Temp.		$\frac{T}{T_1}$	$\frac{p \lambda}{T}$	λ^2
	t_2'	T_2'			t_3'	T_3'			t_4'	T_4'			
76000	40	313		354	40	313		1048	43	316		40,14	55
102080	42,5	315,5		311	42,5	315,5		1008	47	320		41,14	56
133600	46	319		276	45,5	318,5		984	49	322		41,51	57
165110	38	311		376	38,5	311,5		1085	40	313		42,10	58
194640	42	315		319	42	315		1031	45	318		41,89	59
122880	45	318		286	45	318		997	48	321		42,68	60

ms 5098 / 18

Ad: Eötvös Loránd

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

Anyug neve	vegytani képlet	μ	Temperatura		Lőrny	$(\frac{\mu}{s})_s$	λ_s	λ_s^2	a_s^2	φ	$\varphi \lambda_s^2$	Temper
			δ	α								t
38) Isobutylformiat	$C_5H_{10}O_2$	101,77	5	278	0,880	115,6	4,871	23,72	5,871	2,584	61,29	98
39) Isoamylformiat	$C_6H_{12}O_2$	115,74	5	278					6,041			122
40) Methylacetat	$C_3H_6O_2$	73,87	7	280	0,947	78,0	4,273	18,26	5,759	2,727	49,80	55
41) Ethylacetat	$C_4H_8O_2$	87,84	6	279	0,893	98,5	4,618	21,32	5,728	2,563	54,64	75
42) Propylacetat	$C_5H_{10}O_2$	101,77	6	279	0,902	112,7	4,830	23,33	5,878	2,652	61,87	102
43) Isobutylacetat	$C_6H_{12}O_2$	115,74	6	279	0,897	129,0	5,053	25,53	5,843	2,619	66,89	113
44) Isoamylacetat	$C_7H_{14}O_2$	129,71	4	277	0,880	147,4	5,282	27,90	6,054	2,664	74,32	140
45) Methylpropionat	$C_4H_8O_2$	87,80	4	277					5,878			79
46) Ethylpropionat	$C_5H_{10}O_2$	101,77	4	277	0,917	111,0	4,806	23,10	5,829	2,673	61,75	99
47) Propylpropionat	$C_6H_{12}O_2$	115,74	4	277	0,898	128,9	5,051	25,51	6,040	2,712	69,18	122
48) Isobutylpropionat	$C_7H_{14}O_2$	129,71	7	280	0,890	145,7	5,261	27,67	5,906	2,628	72,77	137
49) Isoamylpropionat	$C_8H_{16}O_2$	143,68	4	277					6,152			160
50) Methylbutyrat	$C_5H_{10}O_2$	101,77	7	280	0,910	111,8	4,817	23,26	5,934	2,700	62,64	102
51) Ethylbutyrat	$C_6H_{12}O_2$	115,74	4	277	0,910	127,2	5,029	25,29	5,941	2,703	68,38	119
52) Propylbutyrat	$C_7H_{14}O_2$	129,71	6	279					6,117			143
53) Isobutylbutyrat	$C_8H_{16}O_2$	143,68	6	279	0,874	164,4	5,478	30,01	6,046	2,642	79,29	157
54) Methylisobutyrat	$C_5H_{10}O_2$	101,77	5	278	0,900	113,1	4,826	23,38	5,653	2,544	59,48	92
55) Ethylisobutyrat	$C_6H_{12}O_2$	115,74	4	277	0,886	130,6	5,074	25,74	5,717	2,532	65,17	110
56) Propylisobutyrat	$C_7H_{14}O_2$	129,71	6	279					5,906			135
57) Isobutylisobutyrat	$C_8H_{12}O_2$	139,68	8	281	0,867	161,1	5,441	29,60	5,829	2,526	74,77	149
58) Methylvalerianat	$C_6H_{12}O_2$	115,74	14	287					5,696			115
59) Ethylvalerianat	$C_7H_{14}O_2$	129,71	14	287	0,886	146,4	5,270	27,77	5,738	2,542	70,59	133
60) Propylvalerianat	$C_8H_{16}O_2$	143,68	15	288					5,857			155

Temperature	$f\lambda^2$	Quotient $\frac{f\lambda^2 - \varphi\lambda^2}{t - \alpha}$	Agrotinmel Stamit. krit. höfz		Englell kriti. Stam. höfz		F. d. unitat krit. höfz		Quotient $\frac{f\lambda^2}{T_i - T}$	Quotient $\frac{\varphi\lambda^2}{T_i - \alpha}$
T			T_f	t_f	T_e	t_e	T_i	t_i		
371	41,60	0,212	567	294		278	558	285	0,223	0,219
396	44,07				577	304	590	317	0,227	
528	38,45	0,236	491	218	513	240	507	234	0,215	0,219
348	39,56	0,219	528	255	530	257	530	257	0,217	0,218
375	40,54	0,232	550	277		276	564	291	0,215	0,217
386	42,12	0,231	568	295	569	296	573	300	0,225	0,228
413	43,13	0,229	601	328			609	336	0,220	0,224
352	40,02	0,227			536	263	537	264	0,216	
372	40,18	0,227	549	276	554	281	559	286	0,215	0,219
395	41,36	0,236	585	312	579	306	589	316	0,213	0,222
410	41,19	0,242	580	307	592	319	604	331	0,212	0,225
433	42,72						634	361	0,212	
375	40,91	0,229	553	280		278	565	292	0,215	0,220
392	41,10	0,237	565	292	577	304	584	311	0,214	0,223
416	42,04					326	613	340	0,213	
430	41,42	0,250	595	322	613	333	628	355	0,210	0,228
365	40,16	0,222	546	273	547	274	548	275	0,220	0,220
383	40,14	0,236	553	280		280	568	295	0,217	0,224
408	41,14				589	316P.	602	329	0,212	
422	41,51	0,236	598	325			609	336	0,222	0,228
388	42,10					293	579	306	0,220	
406	41,89	0,241	580	307		297	599	326	0,217	0,226
428	42,68						625	352	0,217	

Anyay neve	melyet kís. l.	μ	Temperatur		Sűrűség	$(\frac{\mu}{s})_D$	λ_D	λ_D^2	a_D^2	ϕ	$\phi \lambda_D^2$
			t	θ							
1) Víz	$2H_2O$	35,92	0	273	1,000	35,92	3,295	10,79	15,234	7,617	82,30
2) Hexan	C_6H_{14}	85,82	2	275	0,676	127,0	5,026	25,26	6,170	2,985	52,67
3) Octan	C_8H_{18}	113,76	6	279	0,705	161,3	5,442	29,62	6,195	2,183	64,53
4) Decan	$C_{10}H_{22}$	141,7	3	276	0,742	191,0	5,759	33,16	6,603	2,449	87,24
5) Amylen	C_5H_{10}	69,85	4	277	0,666	104,9	4,716	22,24	5,728	1,911	42,38
6) Caproylen	C_8H_{16}	111,76	2	275	0,726	151,8	5,334	28,44	6,701	2,465	70,10
7) Diäthyl	C_6H_{10}	87,82	4	277	0,706	115,9	4,875	23,76	5,935	2,047	48,62
8) Benzol	C_6H_6	77,82	7	280	0,892	87,3	4,427	19,69	6,968	3,108	61,23
9) Toluol	C_7H_8	91,79	6	279	0,878	104,5	4,710	22,18	6,961	3,055	67,82
10) Xylol (ortho)	C_8H_{10}	105,76	6	279	0,877	120,6	4,940	24,40	7,039	3,087	75,40
11) Xylol (meta)	C_8H_{10}	105,76	4	277	0,878	120,5	4,939	24,39	7,039	3,087	75,40
12) Xylol (para)	C_8H_{10}	105,76	4	277	0,878	120,5	4,939	24,39	6,990	3,064	74,76
13) Äthylbenzol	C_8H_{10}	105,76	4	277	0,881	120,0	4,932	24,32	7,102	3,127	76,06
14) Propylbenzol	C_9H_{12}	119,73	4	277	0,876	136,6	5,150	26,52	7,137	3,127	82,95
15) Äthyltoluol	C_9H_{12}	119,73	4	277	0,875	136,8	5,153	26,55	7,088	3,098	82,30
16) Mesitylen	C_9H_{12}	119,7	4	277	0,875	136,8	5,153	26,55	7,032	3,080	81,77
17) Cymol	$C_{10}H_{14}$	133,7	3	276	0,870	153,7	5,356	28,68	7,018	2,054	87,65
18-25 Alkoholok											
26) Chloroform sűrűség 15°C-nél	$CHCl_3$	119,08	20	293	1,491	79,87	4,207	18,55		2,766	51,31
26) Chloroform Schiff.	$CHCl_3$	119,08	8	287	1,510	78,8	4,287	18,38	3,874	2,925	53,76
27) Jén-tetrachlorid	CCl_4	153,45	7	280	1,612	95,3	4,568	20,86	3,600	2,902	60,49
28) Äthylendichlorid	$C_2H_4Cl_2$	98,68	8	281	1,268	77,8	4,269	18,22	5,499	3,487	63,59
29) Äthylendichlorid	$C_2H_4Cl_2$	98,68									
30) Propylchlorid	C_3H_7Cl	78,28	6	279	0,906	86,4	4,421	19,54	5,330	2,414	47,17
31) Aceton	C_3H_6O	57,87	5	278	0,810	71,4	4,148	17,20	6,389	2,587	44,50
32) Paraldehyd	$C_6H_{12}O_3$	131,7	5	278	1,009	130,4	5,070	25,70	5,632	2,819	72,47
33) Diäthylacetal	$C_6H_{14}O$	101,78	5	278					5,611		
34) Dimethylacetal	$C_4H_{10}O_2$	89,80	4	277					5,464		
35) Diäthyläther	$C_4H_{10}O$	73,84	6	279	0,730	101,1	4,658	21,70	5,189	1,894	41,10
36) Äthylformiat	$C_3H_6O_2$	72,83	5	278	0,939	78,6	4,283	18,34	5,562	2,616	47,87
37) Propylformiat	$C_4H_8O_2$	87,80	10	283	0,905	97,0	4,595	21,11	5,850	2,655	56,05

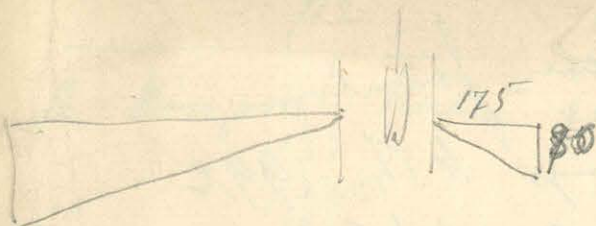
Temperatures		ϕ^2	Quotient $\frac{\phi^2 - \phi_0^2}{t - t_0}$	a Quotient namlich krit. hörs		endelt krit. kur hörs		$\frac{T - T_0}{T_0 - T_0}$ krit. hörs elkure $T = 463$		Quotient $\frac{\phi^2}{T_0 - T}$	Quotient $\frac{\phi^2}{T_0 - Q}$
t	T			T_0	t_0	T_c	t_c	T_1	t_1		
100	373	65,96	0,163	778	505	683	410 C.	628	355	0,259	0,232
68	341	37,42	0,231	503	230	523	250 P.	504	231	0,230	0,230
107	380	39,05	0,252	545	272	544	271 P.	553	280	0,226	0,235
159	432	41,32	0,256	593	320			637	364	0,201	0,224
37	310	35,37	0,213	476	203	474	201 P.	466	193	0,227	0,224
125	398	40,57	0,240	567	294	572	299	583	310	0,219	0,228
58	331	37,75	0,201	579	246	507	234	494	221	0,231	0,224
80	353	44,58	0,228	549	276	554	281 S.	543	270	0,234	0,233
110	383	44,41	0,225	581	308	594	321 P.	581	308	0,225	0,225
141	414	45,19	0,224	616	343	624		624	357	0,215	0,219
139	412	45,19	0,224	614	341	621		621	348	0,216	0,220
138	411	45,92	0,215	624	351	618		618	345	0,222	0,219
126	409	45,88	0,229	609	336	617		617	344	0,220	0,224
159	432	46,36	0,236	634	361	644		644	371	0,219	0,226
162	435	45,93	0,230	635	362	650		650	377	0,216	0,221
165	438	44,88	0,229	634	361	654		654	381	0,208	0,218
176	449	45,07	0,247	632	359	652		652	379	0,222	0,233
60	333	42,10	0,230	516	243	533	260 S.	516	243	0,230	0,230
61	334	42,59	0,211	536	263	533	263 S.	518	245	0,231	0,227
75	348	45,00	0,228	546	273	551	278 HA	531	258	0,246	0,240
83	356	47,05	0,220	570	297	556	283 P.	554	281	0,237	0,233
57	330	40,77				527	254 P.	507	234	0,230	
47	220	37,88	0,227	487	214	470	221	490	217	0,223	0,224
56	229	35,26	0,187	527	254	506	233 S.	514	241	0,196	0,188
124	397	43,67	0,242	577	304	572	277	592	319	0,224	0,232
103	376	39,64						554	281	0,223	
63	336	37,81						507	234	0,221	
35	308	25,22	0,203	487	208	463	190 S.	463	190	0,228	0,224
54	327	38,07	0,200	517	244	512	239 P.	505	232	0,214	0,211
83	356	41,25	0,202	559	286	540	267 P.	540	267	0,224	0,218

Kirjokirje 1885 Syyskuu 19

Aethylenbromidi Juss edegben,

Kulso itmevo =

kelso itmevo =



Vijeti heijone - Temperature 20°

Temp. 20
K.T. ~~t=20~~
 $\xi = 1,89$ $t = 20$
 $2u = 13,2$ $u = 6,65$
 $\frac{\xi}{u} = 0,284$
 $\frac{a'}{\xi'} = 1,027$
378
378,2
378
378
378
378
377,5
378
378
378

$\delta = 2,178$ $n = 1,538$
Lander Lander

Temp. 99 NT 100,4
 $t = 99$
 $\xi = 1,68$
 $u = 6,65$ $\frac{\xi}{u} = 0,253$
 $\frac{a'}{\xi'} = 1,029$
326
337
326
326
326
326
326,5
Temp. K.T. 99 NT 100,4

$\delta = 2,009$ $n = 1,497$
Walter Spänlein

N.T. 150 L=151 Temp. 151,0

$\xi = 1,503$ $\frac{\xi}{u} = 0,226$
 $\frac{a'}{\xi'} = 1,034$
301
300
301
300
301

NT. 151

300,5
300,5
N.T. 150,5
 $\delta = 1,889$ $n = 1,466$

neghermiltä Juss Walter
- riveli bromitai

$V_{99} = 1,084$

$V_{151} = 1,153$

Vijeti kiltin

STUART
OPTIC CO. AKRON, OHIO
CONVEX

lehtin

$t = 20$ K.T.

$t = 21,1$ N.T.

377,5
378
376,5
376
376,5

Flanngasas.
Spöglit, med stöb.

Küti & tüvi =
betri at meri =

Vipben
Ingvation 19,8 k. Th.

488,5
489
488,5
488,5
489
488,5

Temp. 19,4

490
489
489
489
489,5

värder förmlen
temp. kTh. 99,2

a med fort
448 10 per cent.
448 her all
446,5
446,5 5 per cent. h
446,5
446,5
447
447,5
447
447,5

— 99,2

Erets avon ethyl.
Küti & tüvi 14,6 Jaktvattgen, mäs at

Temp. 19,5

454
452,5
454 453,8
454
452,5

Temp.
399 } 99
392 } 98
390 } 97

a fygvis ethomigjorndak. ajing
temerisch list fel.
betri Temp. 21°

453
453
453
452
453

Vipul tell erand.

I Vantufala rēgi ar h. ātneris 18,0 Tērs. 21

$$u = 8,5$$

710
712,5
710
710
712,5
712

II Kirs fēla kūtis ātneris 22,75

$$u = 9,45$$

700
700,5
700
700
700

III Kirs-fēla kūtis ātneris 25,7

$$u = 10,8$$

709,5
709,5
709,5
740,5
740

IV Kirs fēla ar kūtis ātneris 27,0

$$u = 11,7$$

748
747,5
747,5
747
747

Tērs. 21

V Kirs fēla ar kūtis ātneris 29,2

$$u = 12,9$$

744
744
745
744,5
744

VI Rejivantufala ar h. ātneris 28,0

$$u = 13,4$$

$$\xi = 0,272,2$$

747
746
746

747
746

$$0,273,2$$

$$\frac{\xi}{u} = 0,275$$

$$\frac{a}{\xi} = 1,025$$

VII Expijsatēla kūtis ātneris 22,0

$$u = 14,8$$

$$\xi = 0,251$$

740
742,5
742,5

742
742,5
742

$$\xi = 0,2712$$

$$\frac{a}{\xi} = 1,031$$

VIII Vantufala ar kūtis ātneris 29,8

$$u = 18,7$$

$$\xi = 3,677$$

705,5
706
706

705
704,5

$$0,25,2$$

$$\frac{\xi}{u} = 0,197$$

$$a = 3,825$$

$$\frac{a}{\xi} = 1,041$$

Szorgf. file glycerin levezővel bepatroz
min. készítése

Glycerinbe tű

Készítés utáni 25

belesz álmérő = 20 mm.

Forrás hőmérséklet

Glycerinbe

T 22° $\xi = 620$

N.T. 173 $\xi =$
565
571
565
570

Vízjel felismerése.

Leveg. 23.

620

622

620

622

Forrás

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

t = 99,5

t = 99,0

t = 99,0

600
597
605
592

590

592

597

594

Glycerin

22° 3,12

172° 284

99° 2,97

$$a_{22} = 2,245$$

$$a_{99} = 2,089$$

$$a_{172} = 2,954$$

172 minutes

$$\begin{array}{r} 3,68 \text{ } / 3,824 \text{ } / 1,059 \\ \underline{3,68} \\ 1440 \\ \underline{1104} \\ 3360 \\ \underline{2212} \\ 1148 \end{array}$$

$$\begin{array}{r} 1,04 \\ \underline{3,12} \\ 2,08 \\ \underline{1,04} \\ 1,04 \\ \underline{2,12} \\ 2,2448 \\ \underline{2,12} \\ 104 \\ \underline{284} \\ 416 \\ \underline{832} \\ 208 \\ \underline{2,9556} \end{array}$$

$$m = C_2 H_8 O_2 = 91,79 \text{ parts.}$$

j_i	a horiz	a^2 horiz	j_0	h horiz	$\frac{m}{a}$ parts	h parts	h^2 parts	h^2 horiz
22	3,25	10,56	1,25	6,60	72,43	4,187	17,52	115,5
99	3,09	9,55	1,20	5,72	76,49	4,244	18,01	109,0
172	2,96	8,76	1,14	5,00	80,52	4,212	18,64	92,0

$$1,25 / 91,79 / 72,43 \text{ } 1,2 / 91,79 / 76,49$$

$$\begin{array}{r} 38 \\ \underline{76} \\ 798 \\ \underline{190} \\ 508 \end{array}$$

$$19,42$$

$$\begin{array}{r} 77 \\ \underline{77} \\ 59 \\ \underline{48} \\ 110 \\ \underline{220} \end{array}$$

$$\begin{array}{r} 73 \\ 1,19 / 91,79 / 80,52 \\ \underline{992} \\ 590 \\ \underline{570} \\ 200 \end{array}$$

MADYAR
KÖNYVTÁRA

$$77 / 1$$

$$\begin{array}{r} 4,179 \\ \underline{8} \\ 4,187 \end{array}$$

$$12 \text{ } 126$$

$$72 / 980$$

$$\begin{array}{r} 5,28 \\ \underline{1,32} \\ 6,60 \end{array}$$

$$\begin{array}{r} 4,77 \\ \underline{1,2} \\ 9,54 \\ \underline{4,77} \\ 5,12 \end{array}$$

$$\begin{array}{r} 4,38 \\ \underline{1,14} \\ 1,752 \\ \underline{4,38} \\ 9,992 \end{array}$$

$$\begin{array}{r} 115,5 \\ \underline{52} \\ 150 \end{array} \quad \begin{array}{r} 22,5 \\ \underline{75} \\ 15 \end{array} \quad \begin{array}{r} 2 \text{ } 2 \text{ } 2 \end{array}$$

$$\xi = a \left(1 + \frac{1}{2} \frac{a}{h} \right)$$

$$\begin{array}{r} 17,5 \\ \underline{6,6} \\ 1050 \\ \underline{1050} \\ 115,50 \end{array}$$

$$\begin{array}{r} 5,72 \\ \underline{1,8} \\ 4,576 \\ \underline{5,72} \\ 10,256 \end{array}$$

$$\begin{array}{r} 18,6 \\ \underline{3} \\ 9,30 \end{array}$$

$$81. 12,5$$

$$\frac{2182178}{100}$$

$$4.64/6.078/1295$$

$$209/48.64/200$$

$$\begin{array}{r} 1870 \\ 928 \\ 4420 \\ 4176 \\ \hline 2440 \end{array}$$

$$12679/1703/9216$$

$$2,044, 0,517$$

$$1,827, 0,334$$

$$1148$$

$$1096$$

$$218. 4.64/5.729/1237$$

$$\begin{array}{r} 1099 \\ 528 \\ 1716 \\ 1592 \\ \hline 3180 \end{array}$$

$$52/11819/1216$$

$$\begin{array}{r} 59,86 \\ 48,67 \\ 11819 \\ 79 \\ \hline 1237 \end{array}$$

$$\begin{array}{r} 145 \\ 126 \\ 870 \\ 290 \\ 145 \\ \hline 118270 \end{array}$$

$$79/517/654$$

$$\begin{array}{r} 1257. \\ 405 \\ 6785 \\ 6742 \\ 8128 \\ 5428 \\ 5428 \\ 2758 \\ \hline 2758 \end{array}$$

$$25$$

$$20$$

$$52/220/44$$

$$\begin{array}{r} 24740 \\ 1207 \\ \hline 11493059 \end{array}$$

$$\begin{array}{r} 184 \\ 84 \\ \hline 1924 \end{array}$$

$$79/721/910$$

$$52/0,487/92$$

$$19/169/2$$

$$79/350/44$$

$$\begin{array}{r} 192 \\ 860 \\ \hline 141 \end{array}$$

$$17689$$

$$132/281/141210$$

$$52/120/234$$

$$97$$

$$151 1264$$

$$070/540/148$$

$$86/1264/147$$

Nincs csavart vízszint

Külső álműs Falvastagság Belső álműs

27,2 m. m. 1,95 m. m. 22,40 m. m.

29,2 m. m. 1,68 m. m. 25,84 m. m.

22,75 m. m. 1,92 m. m. 18,89 m. m.

25,20 m. m. 2,08 m. m. 21,54 m. m.

Egypipetta.

32,25 m. m. 1,35 m. m. 29,55 m. m.

Allylen Borrit

MAGYAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

17,7 m. m. 2,18 m. m. 12,24 m. m.

Shungwar

17,7 m. m. 2,48 m. m. 12,74 m. m.

S₂ - cs

17,6 m. m. 2,40 m. m. 12,80 m. m.

n	ξ	$\frac{\xi}{n}$	$\frac{\xi}{n}$	$\frac{a}{\xi} = 1,826$
8,5	713	3,565		
9,0	720			
9,5	733	3,665	0,386	1,044
10	737			
10,5	741	3,705	0,350	1,033
11	743			
11,5	747	3,735	0,325	1,024
12	747			
12,5	746	3,720	0,298	1,026
13	745			
14	744	3,720	0,266	1,028
15	740			
16	742	3,705	0,232	1,030
17	740 739		0,219	1,035
18	738 737	3,685	0,205	1,038
19	735			

Sept. 1

Viperö my li. m. t. a.

Ammoniak kristall

Ammoniak kristall = 12,98

Ammoniak kristall = 9,30

folowing 1,84.

22° nit (F)



87,92
m.m.



129 m.m.

Ammoniak van 3,75 gram.

Exponat 22° nit

a fegyveres tefegyver = 5,74 kék bent.

a fegyveres 8,53 kék bent.

Jolly, mint a fegyveres 0,57. ; Ammoniak mint 22° nit a fegyveres
= 9 atmoszféra tehát a fegyveres = $9 \frac{1}{1 + \frac{20}{273}} \cdot \frac{0,57}{773} = 0,0062$

a fegyveres a fegyveres = $8,53 \times 0,0062 = 0,0534$ gram

a fegyveres a fegyveres = 3,70 gram

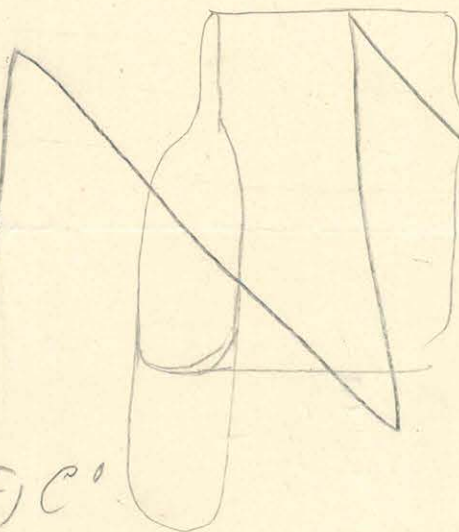
a fegyveres a fegyveres 22° nit = 0,644

24

200 54
46 80
153 74

Temp. 22° C (F)

473
473
473
473



153 74

195 44
111 88
153 29
5 6

Ammoniak 22° L. (F) C°

477
477
477



153 56

AMMONIAK
KÖZLEKEDÉSI
KÖNYVTÁRA

Ammoniak kristall

Ammoniak (F) 19°

475
475,5
475
476



200,28
153,58
153,58
46,70

Melagiton 100°
 Temperatura (F) = $100^\circ C$.

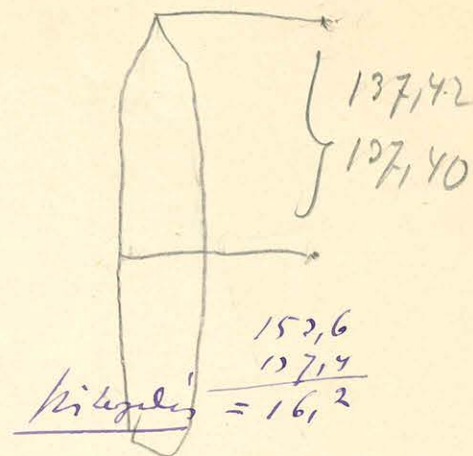
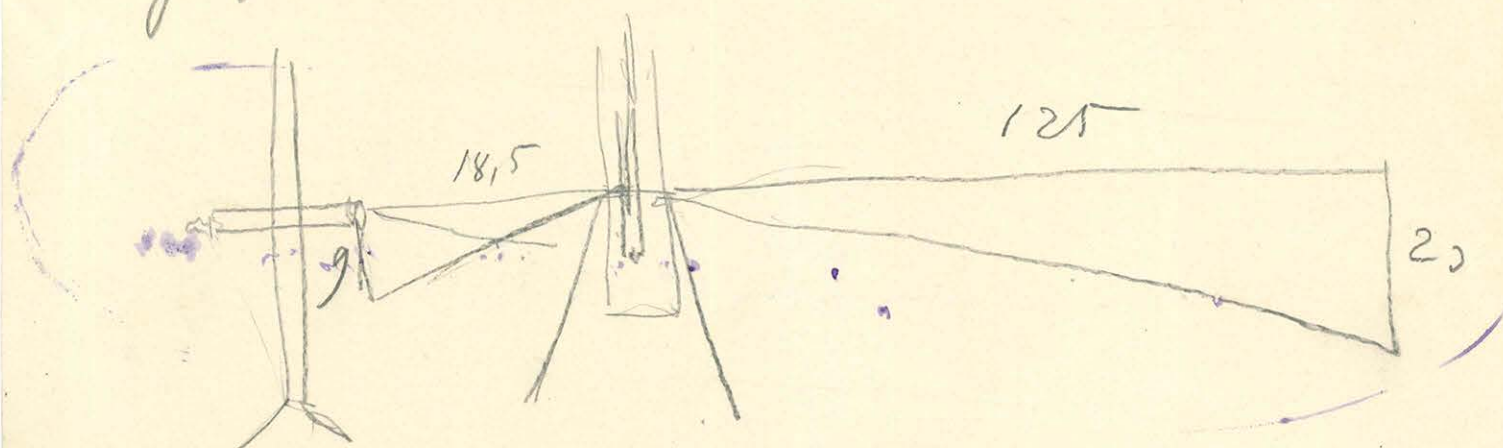


Fig. felállítás.



Temp. (F)

18°
 474
 474
 472,5

2. Törés állás a
 hálókamrában 131,6

Jóval F

100°
 300
 300
 301

Törés állás

148,16

1. adék a törés mutatóra $\alpha = 81^\circ$

$\lambda = 20^\circ$

100 forint a görög tö. szaga 8,52 - 1,10 = 7,43 köbcentim.

100 forint a görög tö. szaga. e szag 100 forint a görög szaga = $7,43 \cdot 61 \frac{1}{1 + \frac{100}{270}} \cdot \frac{0,57}{770}$

görög szaga

görög szaga = 0,243

erősség $\frac{S_{22}}{S_{100}} = 1,26$

~~Ammonium~~ a kiegészítő jolly érték kerek 0,0005 e mint

$$s_{22} = s_{19} \cdot (1 - 0,0005) = 0,644 \cdot (1 - 0,0005) = 0,641$$

és így $s_{100} = 0,509$

A) Ammonium tömeg mutatója 100 pont

$$n' = \frac{d+r}{\frac{d}{n} + \frac{r}{l} \left(\frac{1}{2} + 1 \right)} \text{ formula szerinti}$$

$$n' = \frac{6,49}{\frac{2}{3} \cdot 1,84 + 2,325 \left(\frac{20}{26,5} + 1 \right)} = 1,246$$

$\frac{n-1}{d} =$ pontos számítások minitosa $n_{22} = 1,232$ értéket kerekítve

100 pont $n-1 = \frac{1}{1,26} \cdot 0,332 = 0,264$ tehát n_{100} kerek 1,264

Vízpróba, 138,6 darab állással

I-es próbák almasz = 14

alkohol = 11,75

Temp. 21 °C.

629
629
630

II-es próbák almasz 15

alkohol 12,69

Temp. 21

657
658
657

III-es próbák almasz 17,4
alkohol 14,44

Temp. 21

680
680
680

Mennyiség megadás az ammonium értéket 20 pont

a II-es vízpróba

500
200
695
200

Működés állás a 100 fős értekezési

Expiratúra 722 - 724

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

Ms 5098 / 19

1885

Dr. Pótvárosi -
huz

Dr. Pótvárosi

Dr. Pótvárosi
Dr. Pótvárosi
Dr. Pótvárosi

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KÖNYVTÁRA

$$S_{\text{in}} = \frac{40}{27} = 1.48$$

$$p = 617$$

$$1294$$

$$0,06$$

$$1,224$$

$$28,92$$

$$2512$$

$$5815$$

$$28$$

$$29,08$$

$$f = 2,075$$

$$d = 1,224$$

$$\mu = 75,93$$

$$\frac{\mu}{d} = 61,53$$

$$\lambda = 3,947$$

$$\lambda^2 = 15,58$$

$$f^2 = 29,08$$

$$11,97$$

$$6596$$

$$75,93$$

$$1224 / 75,93 / 61,53$$

$$1890$$

$$1224$$

$$6560$$

$$6170$$

$$3960$$

$$61,53$$

$$617$$

$$42071$$

$$6153$$

$$26918$$

$$379,64201$$

$$121,3$$

$$312$$

$$666$$

$$626$$

$$484$$

$$212$$

$$910$$

$$617$$

$$280700$$

$$313$$

$$11421$$

$$2807$$

$$1421$$

$$11915,9100$$

$$11632$$

$$28391$$

$$26172$$

$$22190$$

$$3,947$$

$$617$$

$$27629$$

$$2947$$

$$409822682$$

$$2435295$$

$$2475 / 2075000 / 1262$$

$$2475$$

$$6400$$

$$1870$$

$$15300$$

$$14610$$

$$6900$$

$$1 = 121,3$$

$$t_1 = 14$$

$$2 = 4098$$

$$t_2 = 12$$

$$3 = 1262$$

$$t_3 = 12$$

$$4 = 1520$$

$$t_4 = 9$$

$$\lambda^2 = 47,90$$

$$2,075$$

$$1558$$

$$24600$$

$$15275$$

$$15275$$

$$2075$$

$$479,0850$$

$$312$$

$$1666$$

$$1565$$

$$938$$

$$99,9$$

$$195$$

$$1530$$

$$121$$

$$153$$

$$206$$

$$153$$

$$1851$$

$$21,262$$

$$921$$

$$1262$$

$$2524$$

$$1262$$

$$15270$$

$$21262$$

$$7572$$

$$505$$

$$8305 / 40980 / 4934$$

$$33220$$

$$77600$$

$$174745$$

$$28550$$

$$24915$$

$$36350$$

6% at monthly

$$t_1 = 14$$

$$2 = 4924$$

$$t_2 = 14$$

$$3 = 1187$$

$$t_3 = 12,5$$

$$4 = 1428$$

$$t_4 = 11$$

$$\lambda^2 = 45,03$$

$$4790$$

$$2874$$

$$4503$$

$$1520$$

$$9280$$

$$1438$$

$$1262$$

$$75$$

$$1187$$

$$121$$

$$126$$

$$252$$

$$126$$

$$18246$$

MAGYAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

$$S_{\text{pen}} = \frac{40}{100} = 0.4$$

$$f = 2,075$$

$$\mu = 75,93$$

$$\lambda = 2,947$$

$$\lambda^2 = 15,58$$

$$f^2 = 29,08$$

$$s = 1,224$$

$$\frac{\mu}{s} = 61,53$$

$$p = 617$$

$$\frac{11,97}{6096} \quad \frac{1,224}{75,93} \quad \frac{75,93}{7404} \quad \frac{61,53}{1890}$$

$$\frac{1224}{1890} \quad \frac{1224}{1890} \quad \frac{1224}{1890} \quad \frac{1224}{1890}$$

$$\frac{28,92}{2912} \quad \frac{28,92}{2912} \quad \frac{28,92}{2912} \quad \frac{28,92}{2912}$$

$$\frac{1294}{0,06} \quad \frac{1294}{0,06} \quad \frac{1294}{0,06} \quad \frac{1294}{0,06}$$

$$61,53$$

$$617$$

$$40071$$

$$6153$$

$$26918$$

$$64,01$$

$$3791$$

$$212$$

$$666$$

$$62$$

$$404$$

$$212$$

$$910$$

$$617$$

$$280700$$

$$313$$

$$11421$$

$$2807$$

$$1421$$

$$11915,9100$$

$$11632$$

$$28391$$

$$26172$$

$$22190$$

$$3,947$$

$$617$$

$$27629$$

$$2947$$

$$2405295$$

$$409822682$$

$$2405295$$

$$2405$$

$$2075000$$

$$1262$$

$$6400$$

$$4870$$

$$15200$$

$$14610$$

$$6900$$

$$1 = 121,3$$

$$2 = 4098$$

$$3 = 1262$$

$$4 = 1520$$

$$f_1 = 47,90$$

$$h_1 = 14$$

$$h_2 = 12$$

$$h_3 = 12$$

$$h_4 = 9$$

$$2,075$$

$$1558$$

$$24600$$

$$15275$$

$$15275$$

$$2075$$

$$479,01$$

$$212$$

$$1666$$

$$1565$$

$$99,95$$

$$195$$

$$1530$$

$$121$$

$$155$$

$$206$$

$$155$$

$$1851$$

$$1262$$

$$2528$$

$$1262$$

$$15270$$

$$21262$$

$$75,72$$

$$505$$

$$9280$$

$$1438$$

$$126$$

$$121$$

$$126$$

$$252$$

$$126$$

$$18246$$

$$8305 \quad 40980 \quad 4934$$

$$33220$$

$$77600$$

$$77745$$

$$28550$$

$$24915$$

$$36350$$

$$1262$$

$$75$$

$$1187$$

MAGYAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

C. W. Dittmar, Ann. D. Chem. Suppl. II 1868

	Acetyl formiat	Acetyl acetat
16,7	174,1	165,3
28,6	300,3	282,3
38,4	425,8	421,7
56,3	823,7	823,3
t	f-a	
18	15,35	
38,4	27,8	
55,0	40,58	
78,9	59,18	

Verhältnis beide

$$t = 14,4 \quad (h + \frac{r}{5})r = 6,24$$

Gleichgewichte

Nannann Ann. D. Ch. 159

Andersthalbchlorid C_2Cl_6

150	78°	100	182°
< 1 mm	12,5	31	760

Kapitel $C_{10}H_8$

19	78	100	218°
2	9	20,5	760

48) Isobutypropionat $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{s} = 173,54$ $\lambda = 5,578$ $\lambda^2 = 31,11$

$t = 137$ $T = 410$ $p = 763$ $p^2 = 582200$ $f = 1,324$ $f^2 = 2,220$

$$\begin{array}{r} 173,5 \\ 763 \\ \hline 5205 \\ 10410 \\ 12145 \\ \hline 410 \overline{) 1323,805} \quad \underline{322,9} \\ 123 \\ \hline 93 \\ 82 \\ \hline 118 \\ 82 \\ \hline 366 \end{array} \quad t_1 = 41$$

$$\begin{array}{r} 582200 \\ 410 \\ \hline 5822 \\ 23288 \\ \hline 232 \overline{) 238,70200} \quad \underline{102900} \\ 670 \\ 464 \\ \hline 2062 \\ 2088 \end{array} \quad t_2 = 42,5$$

$$\begin{array}{r} 5,578 \\ 763 \\ \hline 16734 \\ 33468 \\ 29046 \\ \hline 4256014 \\ 4256 \overline{) 1324000} \quad \underline{311} \\ 12768 \\ 4720 \\ \hline 4256 \\ 4640 \end{array} \quad t_3 = 42,5$$

$$\begin{array}{r} 1,324 \\ 31,11 \\ \hline 41,19 \\ 1324 \\ 1324 \\ \hline 2972 \\ 41 \overline{) 41,189} \quad \underline{1004} \\ 189 \end{array} \quad t_4 = 47$$

$$\begin{array}{r} 320 \\ 311 \\ \hline 320 \\ 320 \\ \hline 969 \\ 100450 \end{array}$$

49) Isobutypropionat $C_8H_{16}O_2$ $\mu = 143,68$ $\frac{\mu}{s} = 196,95$ $\lambda = 5,818$ $\lambda^2 = 33,85$

$t = 160,8$ $T = 433$ $p = 752$ $p^2 = 565500$ $f = 1,262$ $f^2 = 2,010$

$$\begin{array}{r} 197 \\ 752 \\ \hline 394 \\ 985 \\ \hline 1379 \\ 44 \overline{) 342,1} \\ 1481 \\ \hline 1299 \\ 1824 \\ \hline 1732 \\ 924 \\ \hline 9866 \\ 580 \end{array} \quad t_1 = 43$$

$$\begin{array}{r} 565500 \\ 433 \\ \hline 16965 \\ 16965 \\ \hline 22620 \\ 201 \overline{) 244,861150} \quad \underline{121820} \\ 201 \\ \hline 438 \\ 402 \\ \hline 366 \\ 201 \\ \hline 1658 \\ 1668 \\ \hline 435 \end{array} \quad t_2 = 45$$

$$\begin{array}{r} 5,818 \\ 752 \\ \hline 11636 \\ 29090 \\ 40726 \\ \hline 4375156 \\ 4375 \overline{) 1262000} \quad \underline{288} \\ 8750 \\ 38700 \\ 35000 \\ \hline 37000 \end{array} \quad t_3 = 45$$

$$\begin{array}{r} 1,262 \\ 33,85 \\ \hline 42,72 \\ 20310 \\ 6770 \\ \hline 2385 \\ 433 \overline{) 42,718710} \quad \underline{987} \\ 3897 \\ \hline 3748 \\ 3464 \\ \hline 2847 \end{array} \quad t_4 = 49$$

$$\begin{array}{r} 342 \\ 288 \\ \hline 2736 \\ 2736 \\ \hline 684 \\ 98496 \end{array}$$

44, Isoamylacetat $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{\sigma} = 174,59$ $\lambda = 5,589$ $\lambda^2 = 31,23$
 $t = 140$ $T = 413$ $p = 758$ $p^2 = 574500$ $f = 1,387$ $f^2 = 2,634$

$$\begin{array}{r} 174,6 \\ 758 \\ \hline 13968 \\ 8730 \\ \hline 12222 \\ 410 \overline{) 1523468} \quad \underline{12090} \\ 31448 \\ 826 \\ \hline 1868 \end{array} \quad t_1 = 41$$

$$\begin{array}{r} 574500 \\ 413 \\ \hline 17235 \\ 5745 \\ \hline 22980 \\ 2634 \overline{) 237268500} \quad \underline{21072} \\ 26548 \\ 25706 \\ \hline 20850 \end{array} \quad \lambda_2 = 41,5$$

$$\begin{array}{r} 758 \\ 5,59 \\ \hline 6822 \\ 2790 \\ \hline 2790 \\ 423 \overline{) 1281000} \quad \underline{12711} \\ 10990 \\ 8474 \\ \hline 25160 \end{array} \quad 41,5$$

$$\begin{array}{r} 1,387 \\ 31,23 \\ \hline 4140 \\ 2762 \\ \hline 1381 \\ 4143 \overline{) 4312860} \quad \underline{412} \\ 1828 \\ 1652 \\ \hline 1766 \end{array} \quad \begin{array}{r} 320,4 \\ 226 \\ \hline 19224 \\ 6408 \\ \hline 612 \\ 444504 \end{array} \quad \begin{array}{l} \lambda_4 = 42,5 \\ f^2 = 43,13 \end{array}$$

45, Methylpropanol $C_4H_{10}O$ $\mu = 87,80$ $\frac{\mu}{\sigma} = 104,24$ $\lambda = 4,707$ $\lambda^2 = 22,16$
 $t = 79$ $T = 352$ $p = 757$ $p^2 = 573000$ $f = 1,806$ $f^2 = 5,890$

$$\begin{array}{r} 104,2 \\ 757 \\ \hline 7294 \\ 5210 \\ \hline 7294 \\ 252 \overline{) 788794} \quad \underline{704} \\ 847 \\ 704 \\ \hline 1439 \\ 1408 \\ \hline 314 \end{array} \quad \lambda_1 = 20,5$$

$$\begin{array}{r} 573000 \\ 252 \\ \hline 1146 \\ 2865 \\ \hline 1719 \\ 589 \overline{) 201696000} \quad \underline{1767} \\ 2499 \\ 2356 \\ \hline 1436 \\ 1178 \\ \hline 2580 \end{array} \quad 31,5$$

$$\begin{array}{r} 4707 \\ 757 \\ \hline 22949 \\ 22535 \\ \hline 22949 \\ 3563 \overline{) 1806000} \quad \underline{17815} \\ 24500 \end{array} \quad 31,5$$

$$\begin{array}{r} 1,806 \\ 22,16 \\ \hline 10856 \\ 1806 \\ \hline 2612 \\ 252 \overline{) 4062096} \quad \underline{352} \\ 482 \\ 352 \\ \hline 1300 \\ 1056 \\ \hline 2444 \end{array} \quad \begin{array}{r} 2241 \\ 507 \\ \hline 12487 \\ 112050 \\ \hline 1120987 \end{array} \quad \begin{array}{l} \lambda = 35 \end{array}$$

42) Propylacetat $C_5H_{10}O_2$ $\mu = 101,77$ $\frac{\mu}{\sigma} = 128,56$ $\lambda = 5,047$ $\lambda^2 = 25,47$
 $t = 102$ $T = 375$ $p = 760$ $p^2 = 577600$ $f = 1,592$ $f^3 = 4,035$

$$\begin{array}{r} 128,6 \\ 760 \\ \hline 7716 \\ 90102 \\ \hline 275 \overline{) 7750} \\ 2273 \\ \hline 2250 \\ 2360 \end{array} \quad \begin{array}{r} 260,6 \\ \hline \end{array} \quad t_1 = 35$$

$$\begin{array}{r} 5776 \\ 275 \\ \hline 28880 \\ 40432 \\ \hline 17328 \\ 4025 \overline{) 21660000} \\ 20175 \\ \hline 14850 \\ 12105 \\ \hline 27450 \\ 24210 \\ \hline 32400 \end{array} \quad \begin{array}{r} 53680 \\ \hline \end{array} \quad t_2 = 26$$

$$\begin{array}{r} 5,047 \\ 760 \\ \hline 50282 \\ 25229 \\ \hline 3806 \overline{) 1592000} \\ 15344 \\ \hline 5760 \\ 3806 \\ \hline 19000 \end{array} \quad \begin{array}{r} 415 \\ 415 \\ \hline 225 \\ \hline 22520 \end{array} \quad \begin{array}{r} 415 \\ \hline \end{array} \quad t_3 = 26$$

$$\begin{array}{r} 25,47 \\ 1,592 \\ \hline 40,55 \\ 22923 \\ \hline 12735 \\ 2547 \\ \hline 375 \overline{) 405482} \\ 3048 \\ \hline 3000 \\ 482 \end{array} \quad \begin{array}{r} 1081 \\ \hline \end{array} \quad t_4 = 40$$

$$\begin{array}{r} 2606 \\ 44 \\ \hline 10424 \\ 10424 \\ \hline 144664 \end{array}$$

$$\begin{array}{r} 2606 \\ 436 \\ \hline 15626 \\ 7818 \\ \hline 10424 \\ 1126216 \end{array}$$

43) Isobutyrlacetat $C_6H_{12}O_2$ $\mu = 115,74$ $\frac{\mu}{\sigma} = 150,51$ $\lambda = 5,319$ $\lambda^2 = 28,29$
 $t = 113$ $T = 386$ $p = 760$ $p^2 = 577600$ $f = 1,489$ $f^3 = 3,301$

$$\begin{array}{r} 150,5 \\ 76,0 \\ \hline 9020 \\ 10525 \\ \hline 286 \overline{) 114280} \\ 1158 \\ \hline 772 \\ 3718 \\ 3474 \\ \hline 2440 \end{array} \quad \begin{array}{r} 296 \\ \hline \end{array} \quad t_1 = 39$$

$$\begin{array}{r} 577600 \\ 386 \\ \hline 34656 \\ 46268 \\ \hline 17328 \\ 3207 \overline{) 222953600} \\ 19806 \\ \hline 24893 \\ 20107 \\ \hline 17866 \\ 116505 \\ \hline 13610 \end{array} \quad \begin{array}{r} 67540 \\ \hline \end{array} \quad t_2 = 39$$

$$\begin{array}{r} 2829 \\ 76 \\ \hline 16974 \\ 19803 \\ \hline 215004 \end{array} \quad \begin{array}{r} 5319 \\ 76 \\ \hline 31914 \\ 27233 \\ \hline 404244 \end{array} \quad \begin{array}{r} 368 \\ \hline \end{array} \quad t_3 = 39$$

$$\begin{array}{r} 368 \\ 296 \\ \hline 2208 \\ 2712 \\ \hline 73628 \\ 108928 \\ \hline 2829 \\ 1,489 \\ \hline 25461 \\ 22632 \\ \hline 11316 \\ 2829 \\ \hline 286 \overline{) 421238} \\ 3523 \\ \hline 3474 \\ 498 \end{array} \quad \begin{array}{r} 1091 \\ \hline \end{array} \quad t_4 = 39$$

44) Isoamylacetat $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{\sigma} = 174,59$ $\lambda = 5,589$ $\lambda^2 = 31,23$

46) Acetylpropionat $C_5H_{10}O_2$ $\mu = 101,77$ $\frac{\mu}{\sigma} = 127,83$
 $t = 99$ $T = 372$ $p = 753$ $p^2 = 567000$ $f = 1,584$

$\lambda = 5,037$
 $\lambda^3 = 3,974$

$\lambda^2 = 25,37$

$297 \overline{) 259}$
 $\underline{417}$
 1813
 $\underline{259}$
 103600

$127,8$
 $\underline{753}$
 5234
 6390
 8946
 $272 \overline{) 962334}$
 $\underline{1860}$
 2183
 $\underline{1860}$
 3236
 $\underline{2570}$
 666
 $258,7$
 $\lambda_1 = 25$

$2 = 53080$
 $t_2 = 36$
 567000
 $3974 \overline{) 267151000}$
 $\underline{1134}$
 1701
 2835
 3969
 2974
 29551
 27818
 17330
 53080
 11224
 119220200
 $\lambda_2 = 40,5$

$5,037$
 $\underline{753}$
 15111
 25185
 25259
 3792861
 $3793 \overline{) 1584000}$
 $\underline{15172}$
 6680
 3793
 28870
 $\lambda_2 = 36$

$25,37$
 $\underline{1,584}$
 10148
 20296
 12685
 2537
 $372 \overline{) 4018608}$
 $\underline{272}$
 2986
 2976
 100
 $(\lambda_4 = 40)$
 $\underline{\underline{f \lambda^2 = 40,18}}$

47) Propylpropionat $C_6H_{12}O_2$ $\mu = 115,74$ $\frac{\mu}{\sigma} = 150,70$
 $t = 122$ $T = 395$ $p = 754$ $p^2 = 568500$ $f = 1,461$

$\lambda = 5,021$ $\lambda^2 = 25,21$

$\lambda^2 = 2,120$

288
 $\underline{264}$
 1152
 1728
 $\underline{864}$
 104832

$150,7$
 $\underline{754}$
 6028
 7535
 10549
 $395 \overline{) 1136278}$
 $\underline{790}$
 3462
 3160
 3027
 2765
 2628
 $f = 37,5$

22740
 $\underline{227}$
 22513
 568500
 $\underline{395}$
 28425
 51165
 17055
 $392 \overline{) 2245511}$
 $\underline{2184}$
 615
 312
 3037
 2808
 2295
 $\lambda_2 = 29$

$5,021$
 $\underline{754}$
 21284
 26605
 37247
 4012034
 $4012 \overline{) 1461000}$
 $\underline{12086}$
 25740
 24072
 16680
 $t_3 = 29$

$\lambda^2 = 41,26$ $\underline{1,461}$
 2821
 16986
 11324
 2821
 $395 \overline{) 4136091}$
 $\underline{395}$
 1860
 1580
 2809
 $t_4 = 43$
 1047

40) Methylacetat $C_3H_6O_2$ $\mu = 72,87$ $\frac{\mu}{\sigma} = 83,66$ $\lambda = 4,274$ $\lambda^2 = 19,13$
 $t = 55$ $T = 328$ $p = 759$ $p^2 = 576000$ $f = 2,010$ $f^2 = 8,121$

$$\begin{array}{r} 83,66 \\ 759 \\ \hline 75294 \\ 41820 \\ \hline 58562 \\ 328 \overline{) 6349,79,4} \quad \underline{193,6} \\ 3069 \\ \hline 228 \overline{) 3069} \\ 228 \\ \hline 889 \\ 1174 \\ \hline 984 \\ \hline 1904 \end{array}$$

$t_1 = 26,5$

$$\begin{array}{r} 576000 \\ 328 \\ \hline 4608 \\ 1152 \\ \hline 1728 \\ 5121 \overline{) 188928,000} \quad \underline{29264} \\ 16242 \\ \hline 26508 \\ 24563 \\ \hline 21450 \\ 16242 \\ \hline 52080 \\ 48726 \\ \hline 33540 \end{array}$$

$t_2 = 27,5$

$$\begin{array}{r} 4,374 \\ 759 \\ \hline 29366 \\ 21870 \\ \hline 20618 \\ 332 \overline{) 2010,00} \quad \underline{605} \\ 1992 \\ \hline 1800 \end{array}$$

$27,5$

$$\begin{array}{r} 19,13 \\ 2,010 \\ \hline 1913 \\ 38260 \\ \hline 38451,3 \\ 328 \overline{) 38451,3} \quad \underline{1170} \\ 228 \\ \hline 565 \\ 328 \\ \hline 23716 \\ 2296 \\ \hline 750 \end{array}$$

22

41) Acetylacetat $C_5H_8O_2$ $\mu = 87,84$ $\frac{\mu}{\sigma} = 105,70$ $\lambda = 4,727$ $\lambda^2 = 22,24$
 $t = 75$ $T = 348$ $p = 755$ $p^2 = 570000$ $f = 1,771$ $f^2 = 5,554$

$$\begin{array}{r} 105,7 \\ 755 \\ \hline 8456 \\ 4228 \\ \hline 367836 \\ 348 \overline{) 367836} \\ 5285 \\ \hline 5285 \\ 7399 \\ \hline 248 \overline{) 798,035} \quad \underline{2293} \\ 1696 \\ \hline 1020 \\ 696 \\ \hline 3243 \\ 3132 \\ \hline 1115 \end{array}$$

$t_1 = 21$

$$\begin{array}{r} 570000 \\ 348 \\ \hline 456 \\ 228 \\ \hline 171 \\ 1554 \overline{) 19836,0000} \quad \underline{35710} \\ 16862 \\ \hline 31740 \\ 27770 \\ \hline 39700 \\ 38878 \\ \hline 8220 \end{array}$$

$t_2 = 32$

$$\begin{array}{r} 4,727 \\ 755 \\ \hline 20635 \\ 23635 \\ \hline 30089 \\ 3569 \overline{) 1771,000} \quad \underline{496} \\ 14276 \\ \hline 34340 \\ 32121 \\ \hline 22190 \end{array}$$

$32,0$

$$\begin{array}{r} 22,24 \\ 1,771 \\ \hline 2224 \\ 15638 \\ \hline 15638 \\ 2224 \\ \hline 3956,414 \\ 348 \overline{) 3956,414} \quad \underline{1137} \\ 248 \\ \hline 476 \\ 248 \\ \hline 2284 \\ 1044 \\ \hline 2401 \end{array}$$

$l = 35$

35) Diethylfumarate

$t=25$ $t=34,6$ $T=208$

26) Acetylformiat. $C_2H_4O_2$

$t=34$ $T=227$ $p=757$

$\mu = 79,83$

$\frac{\mu}{\delta} = 84,57$

$\lambda = 4,390$

$\lambda^2 = 19,27$

$p^2 = 572000$

$f = 1,976$

$f^2 = 7,715$

227 $\overline{) 6401949} \quad \underline{195,7}$
 $\begin{array}{r} 84,57 \\ 757 \\ \hline 591,99 \\ 422,85 \\ \hline 591,99 \\ 6401949 \\ \hline 227 \\ 3131 \\ \hline 2942 \\ 1880 \\ \hline 16250 \\ 2450 \end{array}$

7715 $\overline{) 187271000} \quad \underline{24290}$
 $\begin{array}{r} 573000 \\ 227 \\ \hline 4011 \\ 1146 \\ \hline 1715 \\ 187271000 \\ \hline 15430 \\ 33071 \\ \hline 20860 \\ 22450 \\ \hline 86800 \end{array}$

2220 $\overline{) 1976900} \quad \underline{595}$
 $\begin{array}{r} 757 \\ 439 \\ \hline 6813 \\ 2271 \\ \hline 2028 \\ 522325 \\ \hline 522325 \\ 1976900 \\ \hline 16615 \\ 21450 \\ \hline 29907 \\ 15420 \end{array}$

227 $\overline{) 582071792} \quad \underline{1164}$
 $\begin{array}{r} 19,76 \\ 19,27 \\ \hline 15832 \\ 2952 \\ \hline 17784 \\ 1976 \\ \hline 582071792 \\ \hline 5377 \\ 21072 \\ \hline 19659 \end{array}$

1176 $\overline{) 117208}$
 $\begin{array}{r} 59,8 \\ 196 \\ \hline 5588 \\ 5282 \\ \hline 598 \\ 117208 \end{array}$

37) Propylformiat $C_3H_6O_2$

$t=83$

$T=356$

$p=762$

$\mu = 87,80$

$\frac{\mu}{\delta} = 108,70$

$\lambda = 4,770$

$\lambda^2 = 22,78$

$p^2 = 582100$

$f = 1,811$

$f^2 = 5,940$

256 $\overline{) 829371} \quad \underline{233,0}$
 $\begin{array}{r} 1087 \\ 762 \\ \hline 3261 \\ 6522 \\ \hline 7609 \\ 829371 \\ \hline 742 \\ 1173 \\ \hline 1068 \\ 1057 \end{array}$

594 $\overline{) 20722760} \quad \underline{34890}$
 $\begin{array}{r} 582100 \\ 356 \\ \hline 24926 \\ 29105 \\ \hline 17460 \\ 20722760 \\ \hline 17182 \\ 29026 \\ \hline 2376 \\ 52672 \\ \hline 47556 \\ 5156 \end{array}$

3642 $\overline{) 1871000} \quad \underline{497}$
 $\begin{array}{r} 4,773 \\ 762 \\ \hline 14319 \\ 28638 \\ \hline 22411 \\ 3641799 \\ \hline 3641799 \\ 1871000 \\ \hline 14568 \\ 25420 \\ \hline 32778 \\ 26420 \end{array}$

356 $\overline{) 412545} \quad \underline{1159}$
 $\begin{array}{r} 22,78 \\ 1,811 \\ \hline 2278 \\ 2278 \\ \hline 18224 \\ 2278 \\ \hline 412545 \\ \hline 356 \\ 565 \\ \hline 256 \\ 2094 \\ \hline 1780 \\ 3145 \end{array}$

115861 $\overline{) 1491}$
 $\begin{array}{r} 497 \\ 222 \\ \hline 1491 \\ 1491 \\ \hline 994 \\ 115861 \end{array}$

33) Diethylacetal $C_6H_{14}O$ $\mu = 101,78$ $\frac{\mu}{\rho} = 159,9$ $\lambda = 5,427$ $\lambda^2 = 29,45$ $f = 1,046$ $f^2 = 2,439$

103 $T = 380$ $p = 753$ $p^2 = 567000$

$$\begin{array}{r} 753 \\ 160 \overline{) 12048} \\ \underline{1280} \\ 248 \\ 160 \overline{) 2480} \\ \underline{160} \\ 880 \\ 160 \overline{) 8800} \\ \underline{1600} \\ 7200 \\ 160 \overline{) 7200} \\ \underline{1600} \\ 5600 \\ 160 \overline{) 5600} \\ \underline{1600} \\ 4000 \\ 160 \overline{) 4000} \\ \underline{1600} \\ 2400 \\ 160 \overline{) 2400} \\ \underline{1600} \\ 800 \\ 160 \overline{) 800} \\ \underline{1600} \\ 0 \end{array}$$

$$\begin{array}{r} 567000 \\ 280 \overline{) 1701} \\ \underline{560} \\ 1141 \\ 280 \overline{) 1141} \\ \underline{560} \\ 581 \\ 280 \overline{) 581} \\ \underline{560} \\ 21 \\ 280 \overline{) 2100} \\ \underline{560} \\ 1540 \\ 280 \overline{) 1540} \\ \underline{560} \\ 980 \\ 280 \overline{) 980} \\ \underline{560} \\ 420 \\ 280 \overline{) 420} \\ \underline{560} \\ 0 \end{array}$$

$$\begin{array}{r} 5,427 \\ 753 \overline{) 16281} \\ \underline{5086} \\ 11415 \\ 753 \overline{) 11415} \\ \underline{5086} \\ 6329 \\ 753 \overline{) 6329} \\ \underline{5086} \\ 1243 \\ 753 \overline{) 1243} \\ \underline{5086} \\ 734 \\ 753 \overline{) 734} \\ \underline{5086} \\ 225 \\ 753 \overline{) 225} \\ \underline{5086} \\ 175 \\ 753 \overline{) 175} \\ \underline{5086} \\ 125 \\ 753 \overline{) 125} \\ \underline{5086} \\ 75 \\ 753 \overline{) 75} \\ \underline{5086} \\ 25 \\ 753 \overline{) 25} \\ \underline{5086} \\ 25 \end{array}$$

$$\begin{array}{r} 44 = 1043 \\ t = 43^\circ \\ \mu^2 = 39,64 \\ 29,45 \\ 1,046 \\ 17670 \\ 11780 \\ 8825 \\ 2945 \\ 39639 \\ 63 \\ 38 \\ 259 \\ 163 \\ 152 \\ 119 \\ 229 \\ 317 \\ 2203 \\ 229 \\ 87 \\ 2049 \end{array}$$

34) Dimethylacetal $C_4H_{10}O_2$ $\mu = 92,80$ $\mu = 89,80$ $\frac{\mu}{\rho} = 110,81$ $\lambda = 4,803$ $\lambda^2 = 23,07$
 $t = 63$ $T = 336$ $p = 755$ $p^2 = 570000$ $f = 1,639$ $f^2 = 4,403$

$$\begin{array}{r} 110,8 \\ 755 \overline{) 5540} \\ \underline{5540} \\ 0 \end{array}$$

$$\begin{array}{r} 4,803 \\ 755 \overline{) 24015} \\ \underline{5086} \\ 18929 \\ 755 \overline{) 18929} \\ \underline{5086} \\ 13843 \\ 755 \overline{) 13843} \\ \underline{5086} \\ 8757 \\ 755 \overline{) 8757} \\ \underline{5086} \\ 3671 \\ 755 \overline{) 3671} \\ \underline{5086} \\ 1585 \\ 755 \overline{) 1585} \\ \underline{5086} \\ 1079 \\ 755 \overline{) 1079} \\ \underline{5086} \\ 593 \\ 755 \overline{) 593} \\ \underline{5086} \\ 84 \\ 755 \overline{) 84} \\ \underline{5086} \\ 84 \end{array}$$

$$\begin{array}{r} 4,803 \\ 755 \overline{) 24015} \\ \underline{5086} \\ 18929 \\ 755 \overline{) 18929} \\ \underline{5086} \\ 13843 \\ 755 \overline{) 13843} \\ \underline{5086} \\ 8757 \\ 755 \overline{) 8757} \\ \underline{5086} \\ 3671 \\ 755 \overline{) 3671} \\ \underline{5086} \\ 1585 \\ 755 \overline{) 1585} \\ \underline{5086} \\ 1079 \\ 755 \overline{) 1079} \\ \underline{5086} \\ 593 \\ 755 \overline{) 593} \\ \underline{5086} \\ 84 \\ 755 \overline{) 84} \\ \underline{5086} \\ 84 \end{array}$$

$$\begin{array}{r} 23,07 \\ 16,39 \\ 20763 \\ 6921 \\ 13842 \\ 2007 \\ 306 \overline{) 3781,17} \\ \underline{2007} \\ 1774 \\ 306 \overline{) 1774} \\ \underline{1245} \\ 529 \\ 306 \overline{) 529} \\ \underline{1245} \\ 409 \\ 306 \overline{) 409} \\ \underline{1245} \\ 283 \\ 306 \overline{) 283} \\ \underline{1245} \\ 159 \\ 306 \overline{) 159} \\ \underline{1245} \\ 35 \\ 306 \overline{) 35} \\ \underline{1245} \\ 35 \end{array}$$

35) Diethylacetal $C_6H_{14}O$ $\mu = 101,78$ $\frac{\mu}{\rho} = 159,9$ $\lambda = 5,427$ $\lambda^2 = 29,45$ $f = 1,046$ $f^2 = 2,439$

38) Isobutylformiat $C_5H_{10}O_2$ $\mu = 101,77$ $\frac{\mu}{\rho} = 130,74$ $\lambda = 5,076$ $\lambda^2 = 25,76$
 $t = 98$ $T = 371$ $p = 747$ $p^2 = 558000$ $f = 1,615$ $f^2 = 4,212$

49100
46700
2400

$$\begin{array}{r} 100,7 \\ 747 \\ \hline 9149 \\ 5228 \\ \hline 6149 \\ 271 \overline{) 916,32} \end{array}$$

$t_1 = 35$

$$\begin{array}{r} 558000 \\ 271 \\ \hline 558 \\ 2706 \\ 1674 \\ \hline 4212 \overline{) 20701,800} \end{array}$$

$t_2 = 35,5$

$$\begin{array}{r} 4944 \\ 5076 \\ 747 \\ \hline 35532 \\ 20364 \\ \hline 25592 \\ 379177 \\ \hline 207018000 \end{array}$$

$$\begin{array}{r} 1015 \\ 1060 \\ \hline 1615 \\ 271 \overline{) 2682,5} \end{array}$$

$$\begin{array}{r} 2576 \\ 1015 \\ \hline 12880 \\ 2576 \\ \hline 15456 \\ 2576 \\ \hline 271 \overline{) 416024} \end{array}$$

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39) Isoamylformiat $C_6H_{12}O_2$ $\mu = 115,74$ $\frac{\mu}{\rho} = 153,21$ $\lambda = 5,250$ $\lambda^2 = 28,62$
 $t = 98$ $t = 123$ $T = 396$ $p = 748$ $p^2 = 559500$ $f = 1,540$ $f^2 = 3,652$

$$\begin{array}{r} 153,2 \\ 748 \\ \hline 12256 \\ 6128 \\ \hline 10724 \\ 296 \overline{) 11459,36} \end{array}$$

$t_1 = 37,5$

$$\begin{array}{r} 559500 \\ 396 \\ \hline 33570 \\ 50355 \\ \hline 16785 \\ 296 \overline{) 2215620,00} \end{array}$$

$t_2 = 37,5$

$$\begin{array}{r} 748 \\ 525 \\ \hline 2040 \\ 2244 \\ \hline 2740 \\ 296 \overline{) 1540000} \end{array}$$

$$\begin{array}{r} 28,62 \\ 1,54 \\ \hline 11448 \\ 14310 \\ \hline 2862 \\ 296 \overline{) 440,748} \end{array}$$

$t = 37$

56) Propylisobutyrate $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{s} = 174,2$ $\lambda = 5,585$ $\lambda^2 = 31,19$
 $t = 135$ $T = 408$ $p = 760$ $p^2 = 577600$ $f = 1,319$ $f^3 = 2,294$

$$\begin{array}{r} 174,2 \\ \times 760 \\ \hline 10452 \\ 12194 \\ \hline 408 \overline{) 1223,912} \overline{) 324,5} \\ 1224 \\ \hline 999 \\ 816 \\ \hline 1832 \\ 1632 \\ \hline 2000 \end{array} \quad t_1 = 41$$

$$\begin{array}{r} 577600 \\ \times 408 \\ \hline 41108 \\ 231040 \\ \hline 2294 \overline{) 2351,508,00} \overline{) 102080} \\ 2294 \\ \hline 5750 \\ 4588 \\ \hline 16280 \end{array} \quad t_2 = 42,5$$

$$\begin{array}{r} 5,585 \\ \times 760 \\ \hline 33510 \\ 39095 \\ \hline 4244,60 \\ 4245 \overline{) 1019000} \overline{) 311} \\ 12735 \\ \hline 4550 \\ 4245 \\ \hline 3050 \end{array} \quad t_3 = 42,5$$

$$\begin{array}{r} 31,19 \\ \times 1,319 \\ \hline 28071 \\ 3119 \\ \hline 408 \overline{) 411,396} \overline{) 1008} \\ 3396 \end{array} \quad t_4 = 47$$

$$\begin{array}{r} 324 \\ \times 211 \\ \hline 324 \\ 324 \\ \hline 972 \\ 100764 \end{array}$$

57) Isobutydisobutyrate $C_8H_{12}O_2$ $\mu = 139,68$ $\frac{\mu}{s} = 198,2$ $\lambda = 5,820$ $\lambda^2 = 33,99$
 $t = 149$ $T = 422$ $p = 759$ $p^2 = 576000$ $f = 1,221$ $f^3 = 1,820$

$$\begin{array}{r} 198,2 \\ \times 759 \\ \hline 17838 \\ 9910 \\ \hline 13874 \\ 422 \overline{) 1504,338} \overline{) 356,5} \\ 1266 \\ \hline 2383 \\ 2110 \\ \hline 2733 \\ 2532 \\ \hline 2008 \end{array} \quad t_1 = 44,5$$

$$\begin{array}{r} 576000 \\ \times 422 \\ \hline 1152 \\ 1152 \\ \hline 2304 \\ 182 \overline{) 243,071,200} \overline{) 133600} \\ 182 \\ \hline 610 \\ 546 \\ \hline 6476 \\ 546 \\ \hline 1012 \end{array} \quad t_2 = 46$$

$$\begin{array}{r} 759 \\ \times 5,82 \\ \hline 2277 \\ 6072 \\ \hline 2795 \\ 442497 \\ 4425 \overline{) 1221000} \overline{) 276} \\ 8856 \\ \hline 33540 \\ 20975 \\ \hline 25650 \end{array} \quad t_3 = 45,5$$

$$\begin{array}{r} 1221 \\ \times 3,4 \\ \hline 4884 \\ 3663 \\ \hline 422 \overline{) 415,40} \overline{) 984} \\ 3798 \\ \hline 3534 \\ 3276 \\ \hline 1580 \end{array} \quad t_4 = 49$$

$$\begin{array}{r} 276 \\ \times 256 \\ \hline 1656 \\ 1280 \\ \hline 828 \\ 98256 \end{array}$$

50/ Methylbutyrat $C_5H_{10}O_2$ $\mu = 101,77$ $\frac{\mu}{s} = 126,25$ $\lambda = 5,078$ $\lambda^2 = 25,18$
 $t = 102$ $T = 375$ $p = 763$ $p^2 = 582200$ $f = 1,625$ $f^2 = 4,290$

$$\begin{array}{r} 126,3 \\ 763 \\ \hline 3789 \\ 7578 \\ 8841 \\ \hline 075 \overline{) 963,669} \underline{2570} \\ 750 \\ \hline 2136 \\ 1875 \\ \hline 2617 \\ 2625 \\ \hline \end{array} \quad t_1 = 34,5$$

$$\begin{array}{r} 5822 \\ 375 \\ \hline 29110 \\ 40754 \\ \hline 17466 \\ \hline 429 \overline{) 2183,2500} \underline{150900} \\ 2145 \\ \hline 3825 \\ 3861 \\ \hline \end{array} \quad t_2 = 25,5$$

$$\begin{array}{r} 5,078 \\ 763 \\ \hline 15054 \\ 20108 \\ \hline 25126 \\ \hline 3829 \overline{) 1625000} \underline{424} \\ 15316 \\ \hline 9340 \\ 7658 \\ \hline 16820 \\ \hline \end{array} \quad t_3 = 35,5$$

$$\begin{array}{r} 25,18 \\ 1,625 \\ \hline 12590 \\ 5036 \\ \hline 15108 \\ 2518 \\ \hline 375 \overline{) 4091,51} \underline{1091} \\ 278 \\ \hline 3417 \\ 3375 \\ \hline 425 \\ \hline \end{array} \quad t_4 = 39$$

$\lambda^2 = 40,91$

$$\begin{array}{r} 257 \\ 424 \\ \hline 1028 \\ 514 \\ \hline 1028 \\ \hline 108964 \\ \hline \end{array}$$

51/ Acetylbutyrat $C_6H_{12}O_2$ $\mu = 115,74$ $\frac{\mu}{s} = 150,25$ $\lambda = 5,217$ $\lambda^2 = 28,27$
 $t = 119$ $T = 392 = 392$ $p = 750$ $p^2 = 562500$ $f = 1,454$ $f^2 = 3,074$

$$\begin{array}{r} 150,2 \\ 750 \\ \hline 7510 \\ 10514 \\ \hline 092 \overline{) 112650} \underline{2873} \\ 784 \\ \hline 3425 \\ 3196 \\ \hline 2890 \\ 2744 \\ \hline 1460 \\ \hline \end{array} \quad t_1 = 37,5$$

$$\begin{array}{r} 562500 \\ 750 \\ \hline 28125 \\ \hline 092 \overline{) 42187500} \underline{1} \\ 3674 \\ \hline 562500 \\ 392 \\ \hline 11250 \\ 56625 \\ \hline 16875 \\ \hline 092 \overline{) 22050,6000} \underline{671700} \\ 18304 \\ \hline 27518 \\ 5320 \\ \hline 2074 \\ 22460 \\ \hline \end{array} \quad t_2 = 28,5$$

$$\begin{array}{r} 5,217 \\ 750 \\ \hline 26585 \\ 27219 \\ \hline 2987,75 \\ \hline 0988 \overline{) 14540,00} \underline{364} \\ 11964 \\ \hline 25760 \\ 24128 \\ \hline 16320 \\ \hline \end{array} \quad t_3 = 29$$

$$\begin{array}{r} 28,27 \\ 1,454 \\ \hline 11308 \\ 14135 \\ \hline 11308 \\ 2827 \\ \hline 092 \overline{) 411,046} \underline{1048} \\ 292 \\ \hline 1904 \\ 1568 \\ \hline 3366 \\ \hline \end{array} \quad t_4 = 42,5$$

$$\begin{array}{r} 287 \\ 364 \\ \hline 1148 \\ 1722 \\ \hline 861 \\ \hline 104468 \\ \hline \end{array}$$

52/ Propylbutyrat $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{s} = 172,85$ $\lambda = 5,580$ $\lambda^2 = 31,14$

22460

52) Propylbutyrate $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{s} = 173,85$ $\lambda = 5,580$ $\lambda^2 = 31,14$
 $t = 140$ $T = 416$ $p = 763$ $p^2 = 582200$ $f = 1,350$ $f^2 = 2,460$

$\begin{array}{r} 173,8 \\ 763 \\ \hline 5214 \\ 10428 \\ 12166 \\ \hline 416 \overline{) 1526,094} \end{array}$
 $\begin{array}{r} 1248 \\ 780 \\ 416 \\ \hline 3649 \\ 3228 \\ \hline 2210 \end{array}$
 $f_1 = 41$

$\begin{array}{r} 582200 \\ 416 \\ \hline 24932 \\ 25822 \\ \hline 246 \overline{) 24249,520} \end{array}$
 $\begin{array}{r} 246 \\ 246 \\ \hline 1559 \\ 1236 \\ \hline 2424 \\ 2214 \\ \hline 2079 \\ 1968 \\ \hline 1115 \\ 984 \\ \hline 1312 \end{array}$
 $\begin{array}{r} 98450 \\ 4240 \\ \hline 1236 \\ 1236 \\ \hline 652 \\ 592 \\ \hline 1660 \end{array}$
 $t_2 = 42$

$\begin{array}{r} 5,58 \\ 763 \\ \hline 1674 \\ 3548 \\ \hline 2966 \\ 4257,54 \\ \hline 4257 \overline{) 13500,00} \end{array}$
 $\begin{array}{r} 12771 \\ 7290 \\ \hline 4257 \\ 30330 \end{array}$
 $t_3 = 42,5$

$\begin{array}{r} 31,14 \\ 1,35 \\ \hline 15570 \\ 9242 \\ \hline 2114 \\ 416 \\ \hline 258 \end{array}$
 $416 \overline{) 420,390}$
 $t_4 = 47$

$\begin{array}{r} 219 \\ 317 \\ \hline 2290 \\ 219 \\ \hline 957 \\ 101125 \end{array}$

53) Isobutybutyrate $C_8H_{16}O_2$ $\mu = 142,68$ $\frac{\mu}{s} = 197,66$ $\lambda = 5,825$ $\lambda^2 = 33,93$
 $t = 157$ $T = 400$ $p = 763$ $p^2 = 582200$ $f = 1,221$ $f^2 = 1,820$

$\begin{array}{r} 197,7 \\ 763 \\ \hline 5931 \\ 11862 \\ \hline 40 \overline{) 15839,421} \end{array}$
 $\begin{array}{r} 15839 \\ 1291 \\ \hline 215 \\ 243 \end{array}$
 $f_1 = 44$

$\begin{array}{r} 582200 \\ 400 \\ \hline 17466 \\ 23288 \\ \hline 182 \overline{) 240,34600} \end{array}$
 $\begin{array}{r} 182 \\ 182 \\ \hline 583 \\ 546 \\ \hline 374 \\ 264 \\ \hline 1060 \end{array}$
 $\begin{array}{r} 732060 \\ 1060 \\ \hline 1060 \end{array}$
 $t_2 = 45,5$

$\begin{array}{r} 582200 \\ 5,825 \\ 763 \\ \hline 17475 \\ 34950 \\ \hline 40775 \\ 4444,475 \\ \hline 4444 \overline{) 12210,00} \end{array}$
 $\begin{array}{r} 8888 \\ 33226 \\ 31708 \\ \hline 21120 \end{array}$
 $t_3 = 45,5$

$\begin{array}{r} 3393 \\ 1221 \\ \hline 2293 \\ 6786 \\ \hline 6786 \\ 2293 \\ \hline 40 \overline{) 41,42853} \end{array}$
 $\begin{array}{r} 2293 \\ 272 \\ \hline 258 \\ 148 \end{array}$
 $t_4 = 51$

$\begin{array}{r} 275 \\ 275 \\ \hline 275 \\ 1075 \\ 825 \\ \hline 96525 \end{array}$

54) Methylisobutyrate $C_5H_{10}O_2$ $\mu=101,77$ $\frac{\mu}{s} = \frac{101,77}{0,81} = 126,43$ $\lambda=5,018$ $\lambda^2=25,18$
 $t=92$ $T=365$ $p=761$ $p^2=579100$ $f=1,595$ $f^2=4,057$

$$\begin{array}{r} 126,4 \\ 761 \\ \hline 1264 \\ 7584 \\ 8848 \\ \hline 265 \overline{) 961,904} \quad \underline{263,5} \\ 730 \\ \hline 2319 \quad t_1=25 \\ 2190 \\ \hline 1296 \\ 1095 \\ \hline 1954 \end{array}$$

$$\begin{array}{r} 579100 \\ 365 \\ \hline 28955 \\ 34446 \\ 17373 \\ \hline 4057 \overline{) 211371500} \quad \underline{52100} \\ 16228 \\ \hline 20285 \\ 8521 \\ 8114 \\ \hline 4075 \\ 1800 \end{array} \quad t_2=26$$

$$\begin{array}{r} 5,018 \\ 761 \\ \hline 5018 \\ 20108 \\ 25126 \\ \hline 2818,698 \\ 2819 \overline{) 1595000} \quad \underline{418} \\ 15276 \\ 6740 \\ 3519 \\ \hline 29210 \quad t_3=26 \end{array}$$

$$\begin{array}{r} 25,18 \\ 1,595 \\ \hline 12590 \\ 22662 \\ 12590 \\ 2518 \\ \hline 265 \overline{) 401,621} \quad \underline{1100} \\ 365 \\ \hline 366,2 \quad t_4=28 \end{array}$$

$$\begin{array}{r} 265 \\ 418 \\ \hline 2104 \\ 263 \\ \hline 1052 \\ 1099 \quad 34 \end{array}$$

55) Acethylisobutyrate $C_6H_{12}O_2$ $\mu=115,74$ $\frac{\mu}{s} = 150,68$ $\lambda=5,021$ $\lambda^2=28,31$
 $t=110$ $T=383$ $p=752$ $p^2=565500$ $f=1,418$ $f^2=2,850$

$$\begin{array}{r} 150,7 \\ 752 \\ \hline 1507 \\ 4821 \\ 577281 \\ \hline 577 \overline{) 1133,26} \quad \underline{296,0} \\ 1486 \\ \hline 3672 \quad t_1=39 \\ 3447 \\ \hline 2256 \\ 2064298 \\ \hline 1920 \end{array}$$

$$\begin{array}{r} 565500 \\ 383 \\ \hline 16965 \\ 45240 \\ 16965 \\ \hline 285 \overline{) 21658650} \quad \underline{76000} \\ 1995 \\ \hline 1708 \\ 1710 \quad t_2=40 \end{array}$$

$$\begin{array}{r} 5,021 \\ 752 \\ \hline 10642 \\ 26605 \\ 27247 \\ \hline 4001 \overline{) 1418000} \quad \underline{354} \\ 12005 \\ 21790 \\ 20605 \\ \hline 17650 \quad t_3=40 \end{array}$$

$$\begin{array}{r} 28,31 \\ 1,418 \\ \hline 22648 \\ 2831 \\ 11324 \\ 2838 \\ \hline 283 \overline{) 3651,35} \quad \underline{1048} \\ 2298 \\ \hline 3033 \\ 2681 \\ \hline 3352 \\ 380 \overline{) 401435} \quad \underline{1048} \\ 580 \\ \hline 1843 \\ 1532 \\ \hline 3085 \quad t_4=43 \end{array}$$

$$\begin{array}{r} 354 \\ 1062 \end{array}$$

60) Propytraktant Cd_{16}O_2 $\mu = 143,68$ $\frac{\mu}{5} = 196,82$ $\lambda = 5,816$ $\lambda^2 = 33,82$
 $t = 155$ $T = 428$ $p = 760$ $p^2 = 577600$ $f = 1,262$ $f^2 = 20,10$

$$\begin{array}{r} 196,8 \\ 760 \\ \hline 11808 \\ 15776 \\ \hline 428 \overline{) 1495,68} \quad \underline{1284} \\ 2116 \\ 2712 \\ \hline 4040 \\ 3852 \\ \hline 1880 \end{array} \quad \underline{1,44}$$

$$\begin{array}{r} 577600 \\ 428 \\ \hline 46208 \\ 11552 \\ \hline 25104 \\ 205 \overline{) 247,212} \quad \underline{122880} \\ 462 \\ 404 \\ \hline 581 \\ 404 \\ \hline 1772 \\ 1640 \\ \hline 132 \end{array} \quad \underline{1,45}$$

$$\begin{array}{r} 5,816 \\ 760 \\ \hline 34896 \\ 40712 \\ \hline 4420,16 \\ 4420 \overline{) 12620,00} \quad \underline{288} \\ 8840 \\ 3780 \\ 3536 \\ \hline 2440 \\ \underline{1,45} \end{array}$$

$$\begin{array}{r} \mu = 143,68 \quad 33,82 \\ \hline 1,262 \\ \hline 6764 \\ 20292 \\ \hline 6764 \\ 3582 \\ \hline 4268089 \quad \underline{997} \\ 3852 \\ \hline 4160 \\ 3852 \\ \hline 3180 \end{array} \quad \underline{1,48}$$

$$\begin{array}{r} 3,49 \\ 286 \\ \hline 2094 \\ 2792 \\ \hline 698 \\ 99914 \end{array}$$

20) Propytraktant. $T = 370$

$$\begin{array}{r} 87,28 \\ 752 \\ \hline 16256 \\ 40640 \end{array}$$

МЕЖНА
УДОВЕРЛИВО
АКАДЕМИ
КОПИРА

$$16928 \times 27$$

$$\begin{array}{r} 36 \\ 169,8 \\ 36 \\ \hline 10188 \\ 5094 \\ \hline 37 \overline{) 611,28} \quad \underline{165,2} \quad 1377066 \\ 241 \\ 2222 \\ \hline 198578 \end{array}$$

		1		2		3		4	
165,2	22	38252	325	—	—	895	60	—	—
330,4	42	38252	325	—	—	1420	12	—	—

$$\begin{array}{r} 919 \\ 36 \\ \hline 5514 \\ 2754 \\ \hline 27 \overline{) 330,84} \quad \underline{895} \\ 296 \\ 348 \\ \hline 3334 \\ 3334 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1459 \\ 26 \\ \hline 8754 \\ 4377 \\ \hline 27 \overline{) 525,24} \quad \underline{1429} \\ 27 \\ \hline 155 \\ 148 \\ \hline 72 \\ 73743 \\ \hline 3331 \end{array}$$

58) Methylvalerianat $C_6H_{12}O_2$ $\mu = 115,74$ $\frac{\mu}{s} = 148,22$ $\lambda = 5,293$ $\lambda^2 = 28,01$
 $t = 115$ $T = 388$ $p = 755$ $p^2 = 570000$ $f = 1,503$ $f^2 = 3,395$

$$\begin{array}{r} 148,22 \\ 755 \\ \hline 7415 \\ 7415 \\ \hline 10381 \\ 288 \overline{) 1119,66} \end{array}$$

$$\begin{array}{r} 288 \overline{) 1119,66} \\ 776 \\ \hline 3436 \\ 3326 \\ \hline 2028 \\ 2026 \\ \hline 22 \\ f = 375 \end{array}$$

$$\begin{array}{r} 388 \\ 57 \\ \hline 2716 \\ 1940 \\ \hline 221160000 \end{array}$$

$$\begin{array}{r} 221160000 \\ 20370 \\ \hline 17460 \\ 176975 \\ \hline 4850 \\ 2295 \\ \hline 4550 \end{array}$$

$$\begin{array}{r} 5,293 \\ 755 \\ \hline 26465 \\ 26465 \\ \hline 37051 \\ 3996,215 \\ \hline 3996 \overline{) 1500000} \end{array}$$

$$\begin{array}{r} 3996 \overline{) 1500000} \\ 11988 \\ \hline 30420 \\ 27912 \\ \hline 24480 \end{array}$$

$$\begin{array}{r} 28,01 \\ 1,503 \\ \hline 8403 \\ 140050 \\ 2801 \\ \hline 3104 \\ 1950 \end{array}$$

$$\begin{array}{r} 288 \overline{) 42,09,91} \end{array}$$

$$\begin{array}{r} 286 \\ 276 \\ \hline 1716 \\ 2002 \\ \hline 858 \\ 107506 \end{array}$$

59) Acetylvalerianat $C_7H_{14}O_2$ $\mu = 129,71$ $\frac{\mu}{s} = 172,99$ $\lambda = 5,572$ $\lambda^2 = 31,05$
 $t = 133$ $T = 406$ $p = 758$ $p^2 = 574500$ $f = 1,349$ $f^2 = 34,54$

$$\begin{array}{r} 173 \\ 758 \\ \hline 1384 \\ 865 \\ \hline 1211 \\ 5406 \overline{) 1311,34} \end{array}$$

$$\begin{array}{r} 5406 \overline{) 1311,34} \\ 1218 \\ \hline 933 \\ 812 \\ \hline 1214 \end{array}$$

$$\begin{array}{r} 574500 \\ 406 \\ \hline 229800 \\ 229800 \\ \hline 223247000 \end{array}$$

$$\begin{array}{r} 223247000 \\ 22186 \\ \hline 113876 \\ 98176 \\ \hline 15710 \\ 14724 \\ \hline 9860 \end{array}$$

$$\begin{array}{r} 5,572 \\ 758 \\ \hline 44576 \\ 28860 \\ \hline 39004 \\ 4233,576 \end{array}$$

$$\begin{array}{r} 4233 \overline{) 1349000} \\ 12699 \\ \hline 7910 \\ 4233 \\ \hline 36770 \end{array}$$

$$\begin{array}{r} 31,05 \\ 1,349 \\ \hline 27945 \\ 12420 \\ \hline 9315 \\ 3105 \\ \hline 41886,4 \end{array}$$

$$\begin{array}{r} 406 \overline{) 41886,4} \end{array}$$

$$\begin{array}{r} 323 \\ 319 \\ \hline 2907 \\ 223 \\ \hline 969 \\ 108057 \end{array}$$

Chloroethyl. C_2H_5Cl

$$\mu = 64,21$$

$$\mu = 64,31$$

$$\delta = 0,8707$$

$$\frac{\mu}{\delta} = 72,86$$

$$l = 4,195$$

$$l^2 = 17,60$$

$$23,94$$

$$5$$

$$35,27$$

$$64,31$$

$$t = 26$$

$$T = 309$$

$$p = 1695$$

$$p^2 = \frac{2870000}{187000000} = 1,865$$

$$f^2 = \frac{6,487}{2,478}$$

$$2856000$$

$$28900$$

$$146$$

$$2870000$$

$$72,86$$

$$1695$$

$$26930$$

$$66444$$

$$44316$$

$$7286$$

$$309 \mid 1251,912 \sqrt{0/4051348}$$

$$1206$$

$$1592$$

$$1545$$

$$477$$

$$I = 405,1$$

$$L_1 = 48$$

$$6435$$

$$5991$$

$$973$$

$$487000000$$

$$2873000$$

$$209$$

$$25857$$

$$86190$$

$$6487 \mid 8877,57000 \mid 136800$$

$$6487$$

$$23905$$

$$19461$$

$$44447$$

$$38922$$

$$55250$$

$$17$$

$$8877$$

$$5084$$

$$37830$$

$$170000$$

$$48$$

$$1695$$

$$4,195$$

$$8495$$

$$15255$$

$$1695$$

$$6780$$

$$7110545$$

$$711 \mid 186400 \mid 262$$

$$1422$$

$$4380$$

$$4266$$

$$1140$$

$$L_3 = 47$$

$$f = 1,72$$

$$f^2 = 5,088$$

$$711 \mid 1720 \mid 240$$

$$1428$$

$$2980$$

$$48$$

$$L^2 = 22,22$$

$$1,865$$

$$17,6$$

$$11190$$

$$12055$$

$$1805$$

$$309 \mid 222,240 \mid 1042$$

$$324$$

$$1236$$

$$880$$

$$t_4 = 44$$

$$1042$$

$$872$$

$$2084$$

$$294$$


$$17042$$

$$1692$$

$$1182$$

$$1116$$

$$52$$

Chloranthyl.  himantia 1885 Juli

$$\xi = \frac{a^2}{\mu} \quad \mu = 0,28634 a \sqrt{\frac{4}{4+a(\sqrt{e}-1)}} e^{\frac{\sqrt{e}}{2}(u+a(\sqrt{e}-1))}$$

$$\log e = 0,4343$$

$$\log 0,28634 = 0,4568820 - 1$$

$$a = \frac{2}{1 + 0,3047 \frac{4}{u} + \frac{1}{9} \frac{a^2}{u^2}}$$

$$r = 6,15$$

$$h_6 = 2,275$$

$$h_{26} = 2,208$$

$$\delta_{16} = 0,8707$$

$$\delta_6 = 0,9127$$

36°. an höchste $a = 2$

$$\log 0,28634 = 0,4568820 - 1$$

$$\begin{array}{r} 0,4515450 \\ 2,1410990 \\ \hline 2,0405260 \\ 42,18655 \\ \hline 1,6276605 \end{array}$$

$$\mu = 42,43$$

$$\xi = 0,0942$$

$$\text{tutur } a(\sqrt{e}-1) = 0,8282$$

$$u + a(\sqrt{e}-1) = 6,978$$

$$\frac{\sqrt{e}}{2}(u + a(\sqrt{e}-1)) = 4,935$$

$$\log a =$$

$$\log u + a(\sqrt{e}-1) = 0,8437010$$

$$0,4218655$$

$$\frac{2,208}{94}$$

$$z = h + \xi = 2,275 + 0,0942 = 2,302 = 2,302$$

$$\frac{a}{u} = 0,025$$

$$a = \frac{2,302}{1,11}$$

$$a = 2,07. \quad \frac{2,208}{94}$$

$$a^2 = 4,285$$

$$\delta_{26} = 0,8707.$$

$$2,142$$

$$17414$$

$$24828$$

$$8707$$

$$17414$$

$$1,8650394$$

$$f_{26} = 1,865$$

$$\begin{array}{r} 6,15 \mid 2020 \mid 0,336 \\ 7845 \mid 305 \\ \hline 2250 \mid 1680 \\ 1845 \mid 10080 \\ \hline 4050 \mid 102480 \end{array}$$

$$0,1025$$

$$1025$$

$$5125$$

$$2050$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$10250$$

$$1,1025$$

$$105$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

$$1,115$$

ij' a himantia

$$a_I = 207$$

$$a_{II}$$

$$\begin{array}{r} 10250 \mid 0,625 \\ 1112 \mid 2302 \mid 2068 \\ \hline 2226 \mid \\ \hline 7600 \\ 6678 \\ \hline 9220 \end{array}$$

I 20 Spinning ether Kevonch 38 Valum ether is 62 Valum spinning $\frac{p}{s} = 74,82$ $\lambda = 4,214$ $\lambda^2 = 17,75$
 $t = 25$ $T = 298$ $p = 468$ $p^2 = 219000$ $f = 2,434$ $f^2 = 14,41$

$$\begin{array}{r} 74,82 \\ 468 \\ \hline 59856 \\ 44892 \\ 29928 \\ \hline 298 \overline{) 5501,576} \end{array} \quad \begin{array}{r} 117,4 \\ 298 \\ \hline 521 \\ 298 \\ \hline 2235 \\ 2086 \\ \hline 1490 \end{array}$$

$$\lambda_1 = 12,5$$

$$\begin{array}{r} 298 \\ 219000 \\ \hline 2682 \\ 298 \\ \hline 596 \\ 1441 \overline{) 6526,200} \end{array} \quad \begin{array}{r} 4529 \\ 5764 \\ \hline 7622 \\ 7205 \\ \hline 4170 \\ 2882 \\ \hline 12880 \end{array}$$

$$\lambda_2 = 12,5$$

$$\begin{array}{r} 4,214 \\ 468 \\ \hline 33712 \\ 25284 \\ \hline 16856 \\ \hline 1972,152 \\ 1972 \overline{) 2,434,000} \end{array} \quad \begin{array}{r} 1234 \\ 1972 \\ \hline 4620 \\ 3944 \\ \hline 6760 \\ 5916 \\ \hline 8440 \end{array}$$

$$\lambda_3 = 12,5$$

$$\begin{array}{r} 17,75 \\ 24,34 \\ \hline 7100 \\ 5525 \\ \hline 1575 \\ 1575 \\ \hline 0 \\ \hline 1d^2 = 43,20 \end{array} \quad \begin{array}{r} 1449 \\ 298 \\ \hline 1340 \\ 1192 \\ \hline 1483 \\ 1192 \\ \hline 2910 \end{array}$$

$$\lambda_4 = 10^0$$

II 20 Spinning ether Kevonch 56 Valum ether 41 Valum spinning $\frac{p}{s} = \lambda^2 = 79,15$ $\lambda = 4,293$ $\lambda^2 = 18,43$
 $t = 25$ $T = 298$ $p = 504$ $p^2 = 254000$ $f = 2,120$ $f^2 = 9,663$

$$\begin{array}{r} 79,15 \\ 504 \\ \hline 21660 \\ 295750 \\ \hline 298 \overline{) 2989,180} \end{array} \quad \begin{array}{r} 133,9 \\ 298 \\ \hline 894 \\ 1151 \\ \hline 294 \\ 2574 \\ \hline 298 \end{array}$$

$$\lambda_1 = 16$$

$$\begin{array}{r} 254000 \\ 298 \\ \hline 2032 \\ 2286 \\ \hline 508 \\ 966 \overline{) 7569,200} \end{array} \quad \begin{array}{r} 7833 \\ 7641 \\ \hline 80510 \\ 77304 \\ \hline 32060 \\ 28989 \\ \hline 30710 \end{array}$$

$$\lambda_2 = 17$$

$$\begin{array}{r} 4,293 \\ 504 \\ \hline 17172 \\ 214650 \\ \hline 2162672 \\ 2164 \overline{) 2120,000} \end{array} \quad \begin{array}{r} 984 \\ 19476 \\ \hline 18240 \\ 17312 \\ \hline 9280 \end{array}$$

$$\lambda_3 = 17$$

$$\begin{array}{r} 18,43 \\ 2,12 \\ \hline 5529 \\ 1843 \\ \hline 3686 \\ \hline 1d^2 = 39,2559 \\ 298 \overline{) 39,2559} \end{array} \quad \begin{array}{r} 1318 \\ 298 \\ \hline 845 \\ 844 \\ \hline 515 \\ 298 \\ \hline 2179 \end{array}$$

$$\lambda_4 = 20$$

$$\begin{array}{r} 984 \\ 1318 \\ \hline 2952 \\ 984 \\ \hline 131856 \end{array}$$

Quatern	$t = 25$	$T = 298$	$\beta = 23,5$	$\beta^2 = 55220$	$f^2 = \cancel{29,57}$ $= 24,07$	$\mu = 59,86$		
$C_2H_4O_2$	$s = 1,0580$	$a^2 = 5,458$	$f = 2,887$	$\mu =$	$\frac{\mu}{s} = 56,58$	$d = 3,839$	$d^2 = 14,73$	

HUNGAR
 JUDON/MEYES AKADÉMIA
 KONVULÁRA

$C_4H_8O_4$ *erythron* $\mu = 119.72$

$$\frac{\mu}{\lambda} = 113,16$$

$$A = 4,837$$

$$A^2 = 23,39$$

$$\begin{array}{r} 2,887 \\ 23,39 \\ \hline 25983 \\ 8661 \\ 8661 \\ 5774 \\ \hline 12 = 67,52693 \end{array}$$

$$M^2_{25} = 67.53$$

$$M_{110}^2 = \frac{48,50}{19,03}$$

$$\frac{11^2_{25} - 11^2_{110}}{85} = 0,224$$

85 $\frac{1200}{120} / \frac{0.224}{203}$
 $\frac{120}{203}$
 $\frac{120}{350}$

Enthalpy. $t = 110$ $T = 383$
 C_{H_2O} $\delta = 0,9545$ $a^2 = 4,056$

$p = 5,68$
 $f = 1,936$ $\mu =$

$p^* = 322600$
 $\frac{\mu}{s} = 62,71$

$L^* = 7,256$ $m = 59,86$
 $d = 3,972$ $L^2 = 15,78$

$$\begin{array}{r} 62,71 \\ 568 \\ \hline 501,68 \\ 27626 \\ 21355 \\ \hline 283 \overline{) 25619,28} \overline{) 98,00} \\ 2447 \\ \hline 1149 \\ 766 \\ \hline 1149 \\ 020 \end{array}$$

$t_1 = 7,5$

$$\begin{array}{r} 322600 \\ 382 \\ \hline 9978 \\ 26608 \\ 9978 \\ \hline 283 \overline{) 12738,58} \overline{) 17550} \\ 7256 \\ \hline 7256 \\ 54825 \\ 50792 \\ \hline 40338 \\ 26280 \\ \hline 40580 \end{array}$$

$t_2 = 25$

$$\begin{array}{r} 3,972 \\ 568 \\ \hline 31776 \\ 23832 \\ 19860 \\ \hline 2256,96 \\ 2256 \overline{) 192600} \overline{) 86} \\ 18048 \\ \hline 13120 \\ 11280 \\ \hline 18400 \end{array}$$

$L_3 = 20$

$$\begin{array}{r} 19,36 \\ 3,972 \\ \hline 2872 \\ 12552 \\ 17428 \\ 5808 \\ \hline 768979 \overline{) 305500,8} \\ 2681 \\ \hline 3740 \\ 3387 \\ \hline 3550 \end{array}$$

$L_4 = 70$

$$\begin{array}{r} 607 \\ 156 \\ \hline 4086 \\ 5448 \\ 681 \\ \hline 126666 \end{array}$$

$C_4H_8O_4$ $\mu = 119,72$

$I = 186,0$
 $t_1 = 25$ $T_1 = 1,285$

$\frac{\mu}{s} = 125,42$

17550

$t_2 = 25$

$L = 5,005$

$$\begin{array}{r} 568 \\ 5,005 \\ \hline 2840 \\ 284000 \\ 2842,840 \\ 2843 \overline{) 1926000} \overline{) 681} \\ 17058 \\ \hline 22020 \\ 22744 \\ \hline 2760 \end{array}$$

$L_3 = 250$

$L^2 = 25,05$

$$\begin{array}{r} 1,926 \\ 25,05 \\ \hline 9680 \\ 96800 \\ 2872 \\ \hline 283 \overline{) 4849,68} \overline{) 1266} \\ 282 \\ \hline 10196 \\ 766 \\ \hline 2530 \\ 2298 \\ \hline 2320 \end{array}$$

$t_4 = 26$ $T_1 = 1,287$
 $L^2 = 48,50$

$$\begin{array}{r} 1,285 \\ 463 \\ 2855 \\ 2810 \\ 57740 \\ 584955 \\ 273 \\ \hline 312 \end{array}$$

$$\begin{array}{r} 298 \overline{) 383} \overline{) 1,285} \\ 298 \\ \hline 850 \\ 596 \\ 2540 \\ 2284 \\ \hline 1560 \\ 208 \overline{) 485} \overline{) 2,92} \\ 416 \\ \hline 690 \\ 624 \\ \hline 660 \end{array}$$

Enthalpy

T	Enthalpy
190	312
195	318

$$\begin{array}{r} 318 \\ 110 \\ \hline 2078 \\ 204 \\ \hline 2282 \end{array}$$

$\frac{L^2}{T-T} = \frac{48,50}{202} = 0,240$
 $\frac{L^2}{T-T} = \frac{48,50}{208} = 0,232$