

Featured software

Distillation simulator	www.vaxasoftware.com/soft_eduen/sden.html
FunGraph - Graphs of mathematical functions	www.vaxasoftware.com/soft_eduen/fungraph.html
Design of distillation columns by McCabe-Thiele method	www.vaxasoftware.com/soft_eduen/mcth.html
Worksheets Generators for Maths and Chemistry	www.vaxasoftware.com/pc/index.html
Acid-base equilibrium calculator	www.vaxasoftware.com/soft_eduen/abew.html
Statistics and Probability tools for Windows	www.vaxasoftware.com/soft_eduen/statool.html

Distillation simulator for Windows

Single/Multi-Stage distillation simulator of binary mixtures

More:

www.vaxasoftware.com/soft_eduen/sden.html

MCTH for Windows

Number of theoretical trays for distillation columns by McCabe - Thiele method

More:

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Binary mixtures

- 1) Acetone - Chloroform
- 2) Acetone - Ethanol
- 3) Acetone - Water
- 4) Benzene - Toluene
- 5) Carbon tetrachloride - Benzene
- 6) Ethanol - Water
- 7) Ethyl acetate - Ethanol
- 8) Methanol - Water
- 9) n-Heptane - Toluene
- 10) Water - Ethylene glycol

1) Acetone - Chloroform

Total pressure: 101.3 kPa

Mole fraction of acetone

Liquid	Vapor
0.0000	0.0000
0.0817	0.0500
0.1390	0.1000
0.2338	0.2000
0.3162	0.3000
0.3535	0.3500
0.3888	0.4000
0.4582	0.5000
0.5299	0.6000
0.6106	0.7000
0.7078	0.8000
0.8302	0.9000
0.9075	0.9500
1.0000	1.0000

2) Acetone - Ethanol

Mole fraction of acetone	
Liquid	Vapor
0.000	0.000
0.033	0.111
0.078	0.216
0.149	0.345
0.195	0.410
0.316	0.534
0.414	0.614
0.532	0.697
0.691	0.796
0.852	0.896
1.000	1.000

3) Acetone - Water

Total pressure: 101.3 kPa

Mole fraction of acetone	
Liquid	Vapor
0.0000	0.0000
0.0100	0.3350
0.0230	0.4620
0.0410	0.5850
0.0500	0.6381
0.1000	0.7301
0.1200	0.7560
0.1500	0.7716
0.2000	0.7916
0.3000	0.8124
0.4000	0.8269
0.5000	0.8387
0.6000	0.8532
0.7000	0.8712
0.8000	0.8950
0.9000	0.9335
0.9500	0.9627
1.0000	1.0000

4) Benzene - Toluene

Mole fraction of benzene	
Liquid	Vapor
0.0000	0.0000
0.0200	0.0455
0.0600	0.1320
0.1000	0.2090
0.1400	0.2800
0.1800	0.3440
0.2200	0.4040
0.2600	0.4585
0.3000	0.5075
0.3400	0.5555
0.4200	0.6400
0.4600	0.6790
0.5000	0.7140
0.5400	0.7470
0.5800	0.7765
0.6200	0.8054
0.6600	0.8305
0.7000	0.8545
0.7400	0.8785
0.7800	0.9005
0.8200	0.9215
0.8600	0.9405
0.9400	0.9765
1.0000	1.0000

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5) Carbon tetrachloride - Benzene

Mole fraction of carbon tetrachloride	
Liquid	Vapor
0.000	0.000
0.136	0.158
0.216	0.241
0.257	0.288
0.294	0.321
0.363	0.391
0.406	0.435
0.527	0.548
0.620	0.638
0.722	0.733
1.000	1.000

6) Ethanol - Water

Total pressure: 101.3 kPa

Mole fraction of ethanol	
Liquid	Vapor
0.0000	0.0000
0.019	0.170
0.0721	0.3891
0.0966	0.4375
0.1238	0.4704
0.1661	0.5089
0.2337	0.548
0.2608	0.558
0.3273	0.583
0.3965	0.6122
0.5079	0.6564
0.5198	0.6599
0.5732	0.6841
0.6763	0.7385
0.7472	0.7815
0.8954	0.8954
0.93	0.92
0.97	0.96
1.0000	1.0000

7) Ethyl acetate - Ethanol

Total pressure: 101.3 kPa

Mole fraction of ethyl acetate	
Liquid	Vapor
0.000	0.000
0.050	0.102
0.100	0.187
0.200	0.305
0.300	0.389
0.400	0.457
0.500	0.516
0.540	0.540
0.600	0.576
0.700	0.644
0.800	0.726
0.900	0.837
0.950	0.914
1.000	1.000

8) Methanol - Water

Mole fraction of methanol	
Liquid	Vapor
0.000	0.000
0.020	0.134
0.040	0.230
0.060	0.304
0.080	0.365
0.100	0.418
0.150	0.517
0.200	0.579
0.300	0.665
0.400	0.729
0.500	0.779
0.600	0.825
0.700	0.870
0.800	0.915
0.900	0.958
0.950	0.979
1.000	1.000

9) n-Heptane - Toluene

Mole fraction of n-heptane	
Liquid	Vapor
0.000	0.000
0.025	0.048
0.062	0.107
0.129	0.205
0.185	0.275
0.235	0.333
0.250	0.349
0.286	0.396
0.354	0.454
0.412	0.504
0.455	0.540
0.568	0.637
0.692	0.742
0.950	0.948
1.000	1.000

10) Water - Ethylene glycol

Total pressure: 30.4 kPa

Mole fraction of water	
Liquid	Vapor
0.00	0.000
0.03	0.530
0.07	0.700
0.10	0.780
0.15	0.870
0.27	0.940
0.46	0.980
0.60	0.990
0.69	0.997
0.77	0.998
1.00	1.000

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