

## INSTRUCTIONS FOR USE OF THE INDEX

The index to this volume consists of five parts:

1. ELEMENTS, COMPOUNDS, MIXTURES AND THEIR PROPERTIES (1297-1332)
2. PROPERTIES OF ELEMENTS, COMPOUNDS AND MIXTURES (1333-1349)
3. DIFFUSION IN GASES (1351-1355)
4. AQUEOUS SOLUTIONS, GAS MIXTURES AND THEIR PROPERTIES (1357-1358)
5. THERMODIFFUSION IN GASES (1359)

The **first part** is an alphabetical index of all substances (except aqueous solutions and mixtures) listed in the volume. The basic information for each substance, such as **boiling and melting points, critical values, chemical formulas, molecular weights, etc.**, is given immediately following the heading in the main text and can be located by looking up the earliest page number for the desired substance (printed in bold type). Additional properties for each substance, further separated into **liquid and vapor states**, are indicated under the bold-type entry.

In some cases certain properties presented throughout the book in combined tables are listed under the common heading of **thermodynamic properties**. These properties usually include the following:

- adiabatic
- compressibility
- density
- enthalpy
- entropy
- exponent heat capacity
- heat of melting
- heat of vaporization
- molar fraction
- Prandtl number
- speed of sound
- specific volume
- volume fraction

The **second part** is an alphabetical index of properties with an indented, alphabetized index of substances. Again, as in part 1, above, **thermodynamic properties** of a number of substances are listed as a single entry.

The **third part**, Diffusion in Gases, is essentially an alphabetical index of values listed in a table starting on page 1168.

The **fourth part**, lists properties of aqueous of solutions and is self-explanatory.  
Finally, the **fifth part** is thermodiffusion in gases.

The authors believe that the readers will find the index to be an enormous help in locating the desired properties.

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1-propanol, 730  
2-propanol, 733  
propylene, 595  
rubidium, 250  
sodium, 203  
strontium, 309  
sulfur dioxide, 919  
sulfur hexafluoride, 922  
*n*-tetradecane, 548  
toluene, 642  
*n*-tridecane, 546  
2,2,4-trimethylpentane, 531  
*n*-undecane 542  
water, 71  
xenon, 1087  
*m*-xylene, 647  
*n*-xylene, 649  
*o*-xylene, 644

**Dissociation energy**

cesium, 281  
lithium, 183  
potassium, 220  
rubidium, 250  
sodium, 203

**Electron density**  
nitrogen, 787, 788  
**Electrical resistance, specific**  
mercury, 340  
**Electrical conductivity**  
nitrogen ionized, 788, 789  
**Enthalpy**  
air, 1109,  
ammonia, 806  
argon, 1023, 1067,  
barium, 312, 313  
calcium, 311  
cesium, 283, 284, 291  
chlorine, 950  
ethylene, 583  
heavy water, 134  
krypton, 1071  
lithium, 186, 187, 200  
magnesium, 310  
mercury, 323  
methane, 427, 434  
2-methylpropane (isobutane), 504  
naphthalene, 658  
nitrogen, 760, 763, 770, 786  
oxygen, 856, 861, 904  
potassium, 220, 221, 226, 227, 235  
propane, 454  
propylene, 596  
rubidium, 251, 252, 257, 258, 266  
sodium, 207, 215  
strontium, 311, 313  
sulfur hexafluoride, 923  
water, 84  
water vapor (steam), 84  
xenon, 1088, 1093

**Entropy**

air, 1111,  
ammonia, 806  
argon, 1023, 1069

**Equation of state**

cesium, 281, 305  
cyclohexane, 575  
ethylene, 590  
heavy water, 130  
helium, 959  
methane, 433  
oxygen, 860  
potassium, 245  
propane, 433, 493  
rubidium, 250, 277  
sodium, 203

- Equation of state (continued)**  
 sulfur hexafluoride, 932  
 water, 71
- Gas constant**  
 ethylene, 591  
 methane, 434  
 sulfur hexafluoride, 933
- Gibbs free energy**  
 cesium, 283, 284  
 magnesium, 310,  
 rubidium, 251  
 strontium, 311, 313
- Heat capacity**  
 acetic acid, 750  
 acetone, 747  
 air, 1106, 1113  
 ammonia, 806, 841  
 aniline, 753  
 argon, 1023, 1041, 1065  
 barium 312, 313  
 benzene 640  
 beryllium, 309  
 1,3-butadiene, 624  
*n*-butane, 497  
*n*-butanol, 737  
 1-butene, 600  
*cis*-2-butene, 602  
*trans*-2-butene, 603  
 calcium, 311  
 carbon dioxide, 361, 386, 395, 401,  
 402  
 cesium, 283, 284, 290, 291, 299  
 cyclohexane, 576  
 cyclopentane, 570  
*n*-decane, 541  
 dicumenemethane, 661  
 diphenylmethane series, 660  
 ditoluuenemethane, 661  
 dysprosium, 319  
 ethane, 449  
 ethyl acetate, 745  
 ethylbenzene, 652  
 ethylcyclohexane, 580  
 ethylene, 588, 591  
 ethyl ether, 741  
 fuel T-1, 1260  
 fuel T-5, 1264  
 fuel G-70, 1262  
 gasoline, 1262  
 glycerol, 740  
 hafnium, 319  
 helium, 961, 985  
*n*-heptane, 522
- 1-heptene, 612  
*n*-hexane, 518  
 hydrogen, 37  
 indium, 319  
 isobutylene, 605  
 isopropylbenzene (cumene), 653  
 krypton, 1071  
 lanthanum, 319  
 lead, 319  
 lead-bismuth alloy, 1276  
 lithium, 186, 187, 194, 197  
 magnesium, 310  
 mercury, 323, 325  
 methane, 429, 433, 434  
 methanol, 663, 713  
 2-methylbutane, 514  
 methylcyclohexane, 578  
 methylcyclopentane, 571  
 methylpropane, 505  
 monoisopropyldiphenyl, 661  
 nitrobenzene, 754, 755  
 nitrogen, 766  
*n*-nonane, 536  
*n*-octane, 527  
 oil AMG-10, 1278  
 oxygen, 856  
*n*-pentane, 508  
 1-pentene, 606  
*cis*-2-pentene, 608  
*trans*-2-pentene, 610  
 polyorganosiloxane liquids, 1272  
 potassium, 221, 226, 227  
 praseodymium, 319  
 propane, 454  
 1-propanol, 730  
 2-propanol, 734  
 propylene, 596  
 rubidium, 251, 252, 257, 258, 260  
 sodium, 204, 207, 215  
 strontium, 311  
 sulfur hexafluoride, 923, 929  
*n*-tetradecane, 548  
 thallium, 319  
 tin, 319  
 toluene, 644  
 2,2,4-trimethylpentane, 531  
*n*-undecane 543  
 water, 107  
 xenon, 1088, 1093  
*m*-xylene, 648  
*n*-xylene, 650  
*o*-xylene, 646
- Heat of melting**  
 acetic acid, 750

argon, 1069  
benzoic acid, 752  
ethyl ether, 741  
1-propanol (*n*-propyl alcohol), 730  
2-propanol (isopropyl alcohol), 733

*n*-hexadecane, 552  
*n*-hexane, 518  
1-hexene, 611  
isobutylene, 605  
isoprene, 626  
isopropyl alcohol, 734  
isopropylbenzene (cumene), 654

**Heat of sublimation**

cesium, 281  
lithium, 183  
methane, 435  
potassium, 220  
propane, 494  
rubidium, 250  
sodium, 203  
strontium, 309

krypton, 1071  
lithium, 183  
magnesium, 309  
mercury, 323  
methane, 435  
methanol, 665  
methylacetylene, 631  
2-methylbutane, 514  
2-methyl-1,3-butadiene, 626  
methylcyclohexane, 578  
methylcyclopentane, 571  
2-methylpropane, 502  
monoisopropyldiphenyl, 661  
naphthalene, 658  
nitrobenzene, 754  
*n*-nonadecane, 558  
*n*-nonane, 537  
*n*-octadecane, 556  
*n*-octane, 527  
1-octene, 614  
*n*-pentadecane, 550  
*n*-pentane, 508  
1-pentene, 606  
*cis*-2-pentene, 609  
*trans*-2-pentene, 610  
phenyl ether, 744  
potassium, 220  
propadiene, 621  
propane, 494  
1-propanol, 730  
2-propanol, 734  
propylene, 597  
rubidium, 250  
sodium, 203, 207  
strontium, 309  
sulfur dioxide, 919  
sulfur hexafluoride, 923  
*n*-tetradecane, 548  
toluene, 643  
*n*-tridecane, 546  
2,2,4-trimethylpentane, 532  
*n*-undecane, 543  
vinilbenzene (styrene), 657  
xenon, 1087  
*m*-xylene, 648  
*n*-xylene, 650  
*o*-xylene, 646

**Heat of vaporization (sublimation)**

acetic acid, 751  
acetone, 747  
ammonia, 806  
aniline, 753  
barium, 309  
benzoic acid, 752  
berillium, 309  
*n*-butanol, 737  
1-butene, 601  
*cis*-2-butene, 602  
*trans*-2-butene, 604  
*n*-butylbenzene, 656  
1-butyne, 631  
2-butyne, 632  
calcium, 309  
cesium, 281  
chlorine, 950  
cyclohexane, 576  
cyclohexene, 620  
cyclopentane, 569  
cyclopentene, 619  
*n*-decane, 539  
1,1-dimethylcyclopentane, 574  
*n*-dodecane, 545  
*n*-eicosane, 559  
ethyl acetate, 745  
ethylacetylene, 631  
ethylbenzene, 652  
ethylcyclohexane, 580  
ethylcyclopentane, 573  
ethyl ether, 741  
fluorine, 936  
helium, 961  
*n*-heptadecane, 555  
*n*-heptane, 522  
1-heptene, 613

- Interparticle potential parameters**  
 natural gas (Karachaganak oil field, Kazakhstan), 1158
- Linear thermal expansion coefficient**  
 lithium deuteride, 163  
 lithium hydride, 163  
 lithium tritide, 163
- Mole fraction of components**  
 hydrogen, 43  
 lithium vapor, 186, 187, 194, 196, 197, 198  
 lithium deuteride, 173  
 lithium hydride, 171  
 lithium tritide, 175  
 potassium, 227  
 rubidium, 258  
 sodium, 207  
 water vapor (steam), 120
- Molecular weight**  
 acetic acid, 750  
 acetone, 747  
 acetylene, 627  
 air, 1102  
 ammonia, 805  
 aniline, 753  
 argon, 1022  
 barium, 309  
 benzene, 635  
 benzoic acid, 752  
 beryllium, 309  
 biphenyl, 659  
 1,3-butadiene, 622  
*n*-butane, 497  
*n*-butanol, 737  
 1-butene, 600  
*cis*-2-butene, 601  
*trans*-2-butene, 603  
*n*-butylbenzene, 655  
 1-butine, 631  
 2-butine, 632  
 calcium, 309  
 carbon dioxide, 360  
 carbon monoxide, 341  
 cesium, 281, 291  
 chlorine, 950  
 cumene, 653  
 cyclohexane, 574  
 cyclohexene, 619  
 cyclopentane, 569  
 cyclopentene, 618  
*n*-decane, 539  
 dicumenemethane, 660  
 diethylsiloxane (silicone), 1271  
 1,1-dimethylcyclopentane, 573  
 diphenylmethane series, 660  
 ditolenemethane, 660  
 dixilenemethane, 660  
*n*-dodecane, 544  
*n*-eicosane, 559  
 ethane, 443  
 ethanol, 718  
 ethyl acetate, 744  
 ethylacetylene, 600  
 ethylbenzene, 651  
 ethylcyclohexane, 579  
 ethylcyclopentane, 572  
 ethylene, 581  
 ethyl ether, 741  
 fluorine, 936  
 glicerol, 739  
 heavy water, 130  
 helium-3, 995  
 helium, 959  
*n*-heptadecane, 554  
*n*-heptane, 521  
 1-heptene, 612  
*n*-hexadecane, 552  
*n*-hexane, 516  
 1-hexene, 610  
 hydrogen, 7  
 isobutylene, 604  
 isoprene, 625  
 isopropyl alcohol, 733  
 isopropylbenzene (cumene), 653  
 krypton, 1071  
 lithium, 183  
 magnesium, 309  
 mercury, 321  
 methane, 425  
 methanol, 663  
 methylacetylene, 630  
 2-methylbutane, 513  
 2-methyl-1,3-butadiene, 625  
 methylcyclohexane, 577  
 methylcyclopentane, 570  
 methylpropane, 501  
 monoisopropyldiphenyl, 661  
 naphthalene, 657  
 neon, 997  
 nitrobenzene, 754  
 nitrogen, 756  
*n*-nonadecane, 557  
*n*-nonane, 536  
*n*-octadecane, 556  
*n*-octane, 525  
 1-octene, 614  
 oxygen, 855

- parahydrogen, 7  
*n*-pentadecane, 550  
*n*-pentane, 507  
 1-pentene, 605  
*cis*-2-pentene, 608  
*trans*-2-pentene, 609  
 phenyl ether, 744  
 potassium, 220, 227  
 propadiene, 621  
 propane, 454  
 1-propanol, 730  
 2-propanol, 733  
 pronylene, 595  
 rubidium, 250  
 sodium, 203  
 strontium, 309  
 sulfur dioxide, 919  
 sulfur hexafluoride, 922  
*n*-tetradecane, 548  
 tetraisopropyldiphenymethane, 660  
 toluene, 642  
*n*-tridecane, 546  
 2,2,4-trimethylpentane, 531  
 tritium oxide, 153  
*n*-undecane, 542  
 vinilbenzene (styrene), 656  
 water, 71, 115  
 xenon, 1087  
*m*-xylene, 647  
*n*-xylene, 649  
*o*-xylene, 644
- Mutual diffusion coefficient**
- tritium oxide, 158  
 water vapor into air, 158
- Partial pressure of the components**
- lithium deuteride, 167  
 lithium hydride, 164  
 lithium tritide, 169
- Prandtl number**
- argon, 1070  
 lead-bismuth alloy, 1276  
 mercury, 310
- Pressure critical**
- acetic acid, 750  
 acetone, 747  
 acetilene, 627  
 ammonia, 805  
 aniline, 753  
 argon, 1022  
 barium, 309  
 benzene, 635  
 berillium, 309
- 1,3-butadiene, 622  
*n*-butane, 497  
*n*-butanol, 737  
 1-butene, 600  
*cis*-2-butene, 601  
*trans*-2-butene, 603  
*n*-butylbenzene, 655  
 calcium, 309  
 carbon dioxide, 360  
 carbon monoxide, 341  
 cesium, 281  
 chlorine, 950  
 cumene, 653  
 cyclohexane, 574  
 cyclopentane, 569  
*n*-decane, 539  
 deuterohydrogen, 65  
 1,1-dimethylcyclopentane, 573  
 diphenyl mixture (Dowtherm), 1266  
*n*-dodecane, 544  
 Dowtherm (diphenyl mixture), 1266  
*n*-eicosane, 559  
 ethane, 443  
 ethanol, 718  
 ethyl acetate, 744  
 ethylacetylene, 600  
 ethylbenzene, 651  
 ethylcyclopentane, 572  
 ethylene, 581  
 ethyl ether, 741  
 fluorine, 936  
 helium, 959  
*n*-heptadecane, 554  
*n*-heptane, 521  
*n*-hexadecane, 552  
*n*-hexane, 516  
 hydrogen, 7  
 hydrogen isotopes, 65  
 isobutyene, 604  
 isopropyl alcohol, 733  
 isopropylbenzene (cumene), 653  
 krypton, 1071  
 lithium, 183  
 magnesium, 309  
 mercury, 321  
 methane, 425  
 methanol, 663  
 methylacetylene, 630  
 2-methylbutane, 513  
 methylcyclohexane, 577  
 methylcyclopentane, 570  
 2-methylpropane, 501  
 naphthalene, 657  
 neon, 997

- Pressure critical (continued)**
- nitrogen, 756
  - n*-nonadecane, 557
  - n*-nonane, 536
  - n*-octadecane, 556
  - oxygen, 855
  - parahydrogen, 7
  - n*-pentadecane, 550
  - n*-pentane, 507
  - 1-pentene, 605
  - phenyl ether, 744
  - potassium, 220
  - propadiene, 621
  - propane, 454
  - 1-propanol, 730
  - 2-propanol, 733
  - propylene, 595
  - rubidium, 250
  - sodium, 203
  - strontium, 909
  - sulfur dioxide, 919
  - sulfur hexafluoride, 922
  - n*-tetradecane, 548
  - toluene, 642
  - n*-tridecane, 546
  - 2,2,4-trimethylpentane, 531
  - n*-undecane, 542
  - water, 71
  - xenon, 1087
  - m*-xylene, 647
  - n*-xylene, 649
  - o*-xylene, 644
- Pressure of saturated vapor**
- acetic acid, 750
  - acetone, 747
  - acetylene, 627
  - ammonia, 806
  - benzene, 635
  - benzoic acid, 752
  - beryllium, 314
  - 1,3-butadiene, 622
  - n*-butane, 497
  - n*-butanol, 737
  - 1-butene, 600
  - cis*-2-butene, 602
  - trans*-2-butene, 603
  - n*-butylbenzene, 655
  - 1-butyne, 631
  - 2-butyne, 632
  - calcium, 314
  - cesium, 288, 289
  - chlorine, 950
  - cyclohexane, 575
  - cyclohexene, 620
  - cyclopentane, 569
  - cyclopentene, 618
  - n*-decane, 539
  - 1,1-dimethylcyclopentane, 574
  - n*-dodecane, 545
  - n*-eicosane, 559
  - etane, 443
  - ethyl acetate, 744
  - ethylacilene, 600
  - ethylbenzene, 651
  - ethylcyclohexane, 579
  - ethylcyclopentane, 572
  - ethylene, 581
  - ethyl ether, 741
  - fluorine, 936
  - fuel T-1, 1260
  - fuel T-5, 1263
  - fuel G-70, 1262
  - gasoline, 1262
  - glycerol, 739
  - helium, 961
  - n*-heptadecane, 554
  - n*-heptane, 521
  - 1-heptene, 612
  - n*-hexadecane, 553
  - n*-hexane, 516
  - 1-hexene, 610
  - hydrogen, 9
  - isobutylene, 604
  - isoprene, 625
  - isopropyl alcohol, 733
  - isopropylbenzene (cumene), 653
  - krypton, 1071
  - lithium, 184
  - magnesium, 314
  - mercury, 321, 323
  - methane, 425
  - methylacetylene, 630
  - 2-methylbutane, 514
  - 2-methyl-1,3-butadiene, 625
  - methylcyclohexane, 577
  - methylcyclopentane, 571
  - 2-methylpropane, 502
  - naphthalene, 658
  - nitrobenzene, 754
  - nitrogen, 756
  - n*-nonadecane, 558
  - n*-nonane, 536
  - n*-octadecane, 556
  - n*-octane, 526
  - 1-octene, 614
  - oxygen, 855
  - n*-pentadecane, 550
  - n*-pentane, 509

1-pentene, 605  
*cis*-2-pentene, 608  
*trans*-2-pentene, 609  
phenyl ether, 744  
potassium, 224, 225  
propadiene, 621  
propane, 454  
1-propanol, 730  
2-propanol, 733  
propylene, 595  
rubidium, 255  
sodium, 205, 206  
strontium, 314  
sulfur dioxide, 919  
sulfur hexafluoride, 923  
*n*-tetradecane, 548  
toluene, 642  
*n*-tridecane, 546  
2,2,4-trimethylpentane, 531  
*n*-undecane, 543  
vinilbenzene (styrene), 657  
xenon, 1087  
*m*-xylene, 647  
*n*-xylene, 650  
*o*-xylene, 645

**PVT data**

cesium, 281  
rubidium, 250  
sodium, 203

**Self diffusion coefficient**

mercury, dilute gas, 337  
tritium oxide, 156  
water vapor, 156

**Sound velocity**

ammonia, 806  
argon, 1046  
bismuth, 320  
cadmium, 320  
carbon dioxide, 388  
cesium, 284, 290  
hydrogen, 43  
indium, 320  
lead, 320  
lithium, 184, 186  
mercury, 335  
nitrogen, 789, 790  
oxygen, 907  
potassium, 221, 227, 235  
rubidium, 252, 258, 266  
sodium, 204, 207, 215  
sulfur hexafluoride, 923  
thallium, 320  
tin, 320

water, 94, 95, 115  
zinc, 320

**Specific volume**

ammonia, 806  
argon, 1023  
barium 309  
beryllium, 314  
*n*-butane, 497  
calcium, 309  
cesium, 290, 299  
chlorine, 950  
*n*-eicosane, 560  
ethanol, 719  
heavy water, 132  
*n*-heptadecane, 554  
*n*-heptane, 521  
magnesium, 309  
mercury, 321, 325  
methanol, 663  
2-methylpropane, 502, 503  
nitrogen, 772, 773, 777  
oxygen, 902, 907  
potassium, 235  
rubidium, 266  
strontium, 309  
*n*-tridecane, 547  
*n*-undecane, 543  
water, 74

**Surface tension**

acetic acid, 751  
acetone, 749  
acetylene, 630  
aniline, 754  
barium, 315  
benzene, 642  
biphenyl, 659  
*n*-butane, 566  
*n*-butanol, 739  
calcium, 315  
cesium, 308  
cyclohexane, 577  
cyclohexene, 620  
cyclopentane, 570  
cyclopentene, 619  
*n*-decane, 542  
deuterium, 66  
deuterohydrogen, 66  
diphenyl mixture (Dowtherm), 1268  
*n*-dodecane, 546  
Dowtherm (diphenyl mixture), 1268  
*n*-eicosane, 561  
ethane, 566  
ethanol, 730

- Surface tension (*continued*)  
 ethyl acetate, 746  
 ethylbenzene, 652  
 ethylcyclohexane, 580  
 ethylene, 594  
 ethyl ether, 743  
 fluorine, 949  
 fuel T-1, 1261  
 fuel T-5, 1265  
 fuel G-70, 1263  
 gasoline, 1263  
 glycerol, 740  
 heavy water, 150  
*n*-heptadecane, 555  
*n*-heptane, 525  
 1-heptene, 613  
*n*-hexadecane, 553  
*n*-hexane, 520  
 1-hexene, 612  
 hydrogen isotopes, 65, 66  
 isobutane, 566  
 isopropylbenzene (cumene), 654  
 lithium, 202  
 lithium hydride, 164  
 methane, 566  
 methanol, 717  
 2-methylbutane, 515  
 methylcyclohexane, 579  
 methylcyclopentane, 572  
 monoisopropyldiphenyl, 662  
 naphthalene, 657  
 neon, 1021  
 nitrobenzene, 755  
 nitrogen, 804  
*n*-nonadecane, 558  
*n*-nonane, 538  
*n*-octadecane, 557  
*n*-octane, 530  
 1-octene, 615  
*n*-pentadecane, 551  
*n*-pentane, 513  
 potassium, 449  
 propadiene, 622  
 propane, 566, 568  
 1-propanol, 730  
 2-propanol, 737  
 rubidium, 280  
 sodium, 219  
 strontium, 315  
 sulfur hexafluoride, 935  
*n*-tetradecane, 549  
*n*-undecane, 544  
 water, 105  
*m*-xylene, 649  
*n*-xylene, 651  
*o*-xylene, 646  
**Temperature, boiling**  
 acetic acid, 750  
 acetone, 747  
 acetylene, 627  
 ammonia, 805  
 aniline, 753  
 argon, 1022  
 barium, 309  
 benzene, 635  
 benzoic acid, 752  
 berillium, 309  
 biphenyl, 659  
 1,3-butadiene, 622  
*n*-butane, 497  
*n*-butanol, 737  
 1-butene, 600  
*cis*-2-butene, 601  
*trans*-2-butene, 603  
*n*-butylbenzene, 655  
 1-butyne, 631  
 2-butyne, 632  
*n*-butylbenzene, 655  
 calcium, 309  
 carbon dioxide, 360  
 carbon monoxide, 341  
 cesium, 281  
 chlorine, 950  
 cyclohexane, 574  
 cyclohexene, 619  
 cyclopentane, 569  
 cyclopentene, 618  
*n*-decane, 539  
 dicumenemethane, 660  
 diethylsiloxane (silicone), 1273  
 1,1-dimethylcyclopentane, 573  
 diphenyl methane series, 660  
 diphenyl mixture (Dowtherm), 1266  
 ditoluinemethane, 660  
 divinil, 622  
 dixilenemethane, 660  
*n*-dodecane, 544  
 Dowtherm (diphenyl mixture), 1266  
*n*-eicosane, 559  
 ethane, 443  
 ethanol, 718  
 ethyl acetate, 744  
 ethylbenzene, 651  
 ethylcyclohexane, 579  
 ethylcyclopentane, 572  
 ethylene, 581  
 ethyl ether, 741  
 fluorine, 936

- glycerol, 739  
 heavy water, 130  
 helium, 959  
*n*-heptadecane, 554  
*n*-heptane, 521  
 1-heptene, 612  
*n*-hexadecane, 552  
*n*-hexane, 516  
 1-hexene, 610  
 hydrogen, 7  
 isobutylene, 604  
 isoprene, 625  
*n*-isopropyl alcohol, 730  
*n*-isopropylbenzene (cumene), 553  
 krypton, 1071  
 lead–bismuth alloy, 1276  
 lithium, 183  
 magnesium, 309  
 mercury, 321  
 methane, 425  
 methanol, 663  
 methylacetylene, 630  
 2-methylbutane, 513  
 2-methyl-1,3-butadiene, 625  
 methylcyclohexane, 577  
 methylcyclopentane, 570  
 2-methylpropane, 501  
 naphthalene, 657  
 neon, 997  
 nitrobenzene, 754  
 nitrogen, 756  
*n*-nonadecane, 557  
*n*-nonane, 536  
*n*-octadecane, 556  
*n*-octane, 525  
 1-octene, 614  
 oxygen, 855  
 parahydrogen, 7  
*n*-pentadecane, 550  
*n*-pentane, 507  
 1-pentene, 605  
*cis*-2-pentene, 608  
*trans*-2-pentene, 609  
 phenyl ether, 744  
 potassium, 220  
 propadiene, 621  
 propane, 454  
 1-propanol, 730  
 2-propanol, 733  
 propylene, 595  
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\*Instructions on use of the index may be found on page 1296.