

Formula Index

Formulas for each compound used in the tables are ordered by Landolt-Börnstein Number (LBN) in this index.

Second Virial Coefficients

| | Formula | Compound |
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| 1 | Ar | Argon, [7440-37-1], p.23 |
| 2 | BF ₃ | Boron trifluoride, [7637-07-2], p.25 |
| 3 | B ₂ H ₆ | Diborane, [19287-45-7], p.26 |
| 4 | CHN | Hydrogen cyanide, [74-90-8], p.26 |
| 5 | CO | Carbon monoxide, [630-08-0], p.27 |
| 6 | COS | Carbonyl sulfide, [463-58-1], p.28 |
| 7 | CO ₂ | Carbon dioxide, [124-38-9], p.28 |
| 8 | CS ₂ | Carbon disulfide, [75-15-0], p.30 |
| 9 | ClF ₃ | Chlorine trifluoride, [7790-91-2], p.31 |
| 10 | HCl | Hydrogen chloride, [7647-01-0], p.31 |
| 11 | Cl ₂ | Chlorine, [7782-50-5], p.33 |
| 12 | F ₂ | Fluorine, [7782-41-4], p.33 |
| 13 | F ₄ Si | Silicon tetrafluoride, [7783-61-1], p.34 |
| 14 | F ₅ I | Iodine pentafluoride, [7783-66-6], p.35 |
| 15 | F ₃ P | Phosphorus pentafluoride, [7647-19-0], p.35 |
| 16 | F ₆ Mo | Molybdenum hexafluoride, [7783-77-9], p.36 |
| 17 | F ₆ S | Sulfur hexafluoride, [2551-62-4], p.37 |
| 18 | F ₆ U | Uranium hexafluoride, [7783-81-5], p.39 |
| 19 | F ₆ W | Tungsten hexafluoride, [7783-82-6], p.40 |
| 20 | F ₆ Xe | Xenon hexafluoride, [13693-09-9], p.41 |
| 21 | H ₂ | Hydrogen, [1333-74-0], p.41 |
| 22 | H ₂ | <i>para</i> -Hydrogen, [800000-49-1], p.44 |
| 23 | DH | Deuterium hydride, [13983-20-5], p.46 |
| 24 | D ₂ | Deuterium, [7782-39-0], p.47 |
| 25 | T ₂ | Tritium, [10028-17-8], p.49 |
| 26 | H ₂ O | Water, [7732-18-5], p.49 |
| 27 | D ₂ O | Water- <i>d</i> ₂ , [7789-20-0], p.51 |

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| 30 | D_3N | Deuterium nitride, [13550-49-7], p.55 |
| 31 | H_3P | Phosphine, [7803-51-2], p.56 |
| 32 | He | Helium, [7440-59-7], p.57 |
| 33 | ^3He | Helium-3, [14762-55-1], p.62 |
| 34 | Kr | Krypton, [7439-90-9], p.64 |
| 35 | NO | Nitric oxide, [10102-43-9], p.67 |
| 36 | N_2 | Nitrogen, [7727-37-9], p.69 |
| 37 | N_2O | Nitrous oxide, [10024-97-2], p.72 |
| 38 | Ne | Neon, [7440-01-9], p.74 |
| 39 | O_2 | Oxygen, [7782-44-7], p.75 |
| 40 | O_2S | Sulfur dioxide, [7446-09-5], p.78 |
| 41 | Xe | Xenon, [7440-63-3], p.79 |
| 42 | CBrF_3 | Bromotrifluoromethane, [75-63-8], p.83 |
| 43 | CClF_3 | Chlorotrifluoromethane, [75-72-9], p.83 |
| 44 | CCl_2F_2 | Dichlorodifluoromethane, [75-71-8], p.85 |
| 45 | CCl_3F | Trichlorofluoromethane, [75-69-4], p.86 |
| 46 | CCl_4 | Tetrachloromethane, [56-23-5], p.87 |
| 47 | CF_3I | Trifluoroiodomethane, [2314-97-8], p.88 |
| 48 | CF_4 | Tetrafluoromethane, [75-73-0], p.88 |
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| 55 | CH_2F_2 | Difluoromethane, [75-10-5], p.97 |
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| 57 | CH_3Cl | Chloromethane, [74-87-3], p.99 |
| 58 | CH_3F | Fluoromethane, [593-53-3], p.101 |
| 59 | CH_3I | Iodomethane, [74-88-4], p.102 |
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| 64 | CHD_3 | Methane- <i>d</i> ₃ , [676-80-2], p.106 |
| 65 | CD_4 | Tetradeuteriomethane, [558-20-3], p.106 |
| 66 | CH_4O | Methanol, [67-56-1], p.107 |
| 67 | CH_5N | Methanamine, [74-89-5], p.108 |
| 68 | $\text{CH}_3\text{D}_2\text{N}$ | Methanamine, <i>N</i> , <i>N</i> - <i>d</i> ₂ , [2614-35-9], p.109 |
| 69 | $\text{CH}_2\text{D}_3\text{N}$ | Methan- <i>d</i> ₃ -amine, [5581-55-5], p.109 |
| 70 | CD_5N | Methanamine- <i>d</i> ₅ , [3767-37-1], p.109 |
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| 72 | $\text{C}_2\text{Cl}_2\text{F}_4$ | 1,1-Dichloro-1,2,2,2-tetrafluoroethane, [374-07-2], p.111 |
| 73 | $\text{C}_2\text{Cl}_2\text{F}_4$ | 1,2-Dichloro-1,1,2,2-tetrafluoroethane, [76-14-2], p.111 |
| 74 | $\text{C}_2\text{Cl}_3\text{F}_3$ | 1,1,2-Trichloro-1,2,2-trifluoroethane, [76-13-1], p.113 |
| 75 | C_2D_4 | Tetradeuterioethene, [683-73-8], p.113 |
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| 78 | $\text{C}_2\text{HBrClF}_3$ | 1-Bromo-1-chloro-2,2,2-trifluoroethane, [151-67-7], p.115 |
| 79 | C_2HClF_2 | 1-Chloro-2,2-difluoroethene, [359-10-4], p.115 |
| 80 | C_2HClF_4 | 1-Chloro-1,2,2,2-tetrafluoroethane, [2837-89-0], p.115 |
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| 83 | C_2HF_5 | 1,1,1,2,2-Pentafluoroethane, [354-33-6], p.117 |
| 84 | $\text{C}_2\text{HF}_5\text{O}$ | (Difluoromethoxy)trifluoromethane, [3822-68-2], p.119 |
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| 86 | $\text{C}_2\text{H}_2\text{Cl}_2$ | (<i>E</i>)-1,2-Dichloroethene, [156-60-5], p.120 |
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| 88 | $\text{C}_2\text{H}_2\text{D}_2$ | 1,1-Dideuterioethene, [6755-54-0], p.121 |
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| 91 | $\text{C}_2\text{H}_2\text{F}_4$ | 1,1,1,2-Tetrafluoroethane, [811-97-2], p.122 |
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| 94 | $\text{C}_2\text{H}_3\text{Cl}$ | Chloroethene, [75-01-4], p.124 |
| 95 | $\text{C}_2\text{H}_3\text{ClF}_2$ | 1-Chloro-1,1-difluoroethane, [75-68-3], p.125 |

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| 99 | $C_2H_3F_3$ | 1,1,1-Trifluoroethane, [420-46-2], p.127 |
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| 133 | $\text{C}_3\text{H}_5\text{Br}$ | 3-Bromo-1-propene, [106-95-6], p.155 |
| 134 | C_3H_6 | Cyclopropane, [75-19-4], p.155 |
| 135 | C_3H_6 | Propene, [115-07-1], p.155 |
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| 161 | $\text{C}_4\text{H}_2\text{F}_8$ | 1,1,1,2,2,3,3,4-Octafluorobutane, [662-35-1], p.170 |
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| 233 | $C_5H_{10}S$ | Thiacyclohexane, [1613-51-0], p.200 |
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| 272 | $C_6H_{12}O$ | 3-Methyl-2-pentanone, [565-61-7], p.222 |
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| 303 | C_7H_9N | 3,4-Dimethylpyridine, [583-58-4], p.238 |
| 304 | C_7H_9N | 3,5-Dimethylpyridine, [591-22-0], p.238 |
| 305 | C_7H_{14} | 1-Heptene, [592-76-7], p.238 |
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| 308 | C_7H_{16} | Heptane, [142-82-5], p.239 |
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| 310 | C_8H_{10} | 1,3-Dimethylbenzene, [108-38-3], p.241 |
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| 312 | C_8H_{10} | Ethylbenzene, [100-41-4], p.242 |
| 313 | C_8H_{16} | 1-Octene, [111-66-0], p.243 |
| 314 | C_8H_{16} | 1-Ethyl-1-methylcyclopentane, [16747-50-5], p.243 |
| 315 | C_8H_{18} | 2,3,4-Trimethylpentane, [565-75-3], p.244 |
| 316 | C_8H_{18} | Octane, [111-65-9], p.244 |
| 317 | $C_8H_{18}O$ | Dibutyl ether, [142-96-1], p.246 |
| 318 | $C_8H_{24}O_2Si_3$ | Octamethyltrisiloxane, [107-51-7], p.246 |
| 319 | C_9H_{10} | 2,3-Dihydroindene, [496-11-7], p.246 |
| 320 | $C_{11}H_{10}$ | 2-Methylnaphthalene, [91-57-6], p.247 |

Third Virial Coefficients

| LBN | Formula | Compound |
|-----|---------------------------------|---|
| 321 | Ar | Argon, [7440-37-1], p.249 |
| 322 | CO | Carbon monoxide, [630-08-0], p.250 |
| 323 | CO ₂ | Carbon dioxide, [124-38-9], p.251 |
| 324 | F ₂ | Fluorine, [7782-41-4], p.252 |
| 325 | F ₆ S | Sulfur hexafluoride, [2551-62-4], p.253 |
| 326 | H ₂ | Hydrogen, [1333-74-0], p.253 |
| 327 | H ₂ | <i>para</i> -Hydrogen, [800000-49-1], p.254 |
| 328 | D ₂ | Deuterium, [7782-39-0], p.254 |
| 329 | T ₂ | Tritium, [10028-17-8], p.255 |
| 330 | H ₂ O | Water, [7732-18-5], p.255 |
| 331 | D ₂ O | Water- <i>d</i> ₂ , [7789-20-0], p.257 |
| 332 | H ₂ S | Hydrogen sulfide, [7783-06-4], p.257 |
| 333 | H ₂ N | Ammonia, [7664-41-7], p.258 |
| 334 | He | Helium, [7440-59-7], p.258 |
| 335 | ³ He | Helium-3, [14762-55-1], p.260 |
| 336 | Kr | Krypton, [7439-90-9], p.260 |
| 337 | N ₂ | Nitrogen, [7727-37-9], p.261 |
| 338 | N ₂ O | Nitrous oxide, [10024-97-2], p.262 |
| 339 | Ne | Neon, [7440-01-9], p.262 |
| 340 | O ₂ | Oxygen, [7782-44-7], p.263 |
| 341 | Xe | Xenon, [7440-63-3], p.264 |
| 342 | CF ₃ I | Trifluoroiodomethane, [2314-97-8], p.265 |
| 343 | CF ₄ | Tetrafluoromethane, [75-73-0], p.265 |
| 344 | CHClF ₂ | Chlorodifluoromethane, [75-45-6], p.266 |
| 345 | CHF ₃ | Trifluoromethane, [75-46-7], p.266 |
| 346 | CH ₂ Cl ₂ | Dichloromethane, [75-09-2], p.266 |
| 347 | CH ₂ F ₂ | Difluoromethane, [75-10-5], p.267 |
| 348 | CH ₃ Cl | Chloromethane, [74-87-3], p.267 |
| 349 | CH ₃ F | Fluoromethane, [593-53-3], p.268 |

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| 350 | CH ₄ | Methane, [74-82-8], p.268 |
| 351 | CH ₄ O | Methanol, [67-56-1], p.271 |
| 352 | C ₂ F ₄ | 1,1,2,2-Tetrafluoroethene, [116-14-3], p.273 |
| 353 | C ₂ HCl ₂ F ₃ | 1,1-Dichloro-2,2,2-trifluoroethane, [306-83-2], p.273 |
| 354 | C ₂ HF ₅ | 1,1,1,2,2-Pentafluoroethane, [354-33-6], p.273 |
| 355 | C ₂ H ₂ F ₄ | 1,1,1,2-Tetrafluoroethane, [811-97-2], p.273 |
| 356 | C ₂ H ₃ Cl ₃ | 1,1,1-Trichloroethane, [71-55-6], p.274 |
| 357 | C ₂ H ₃ F ₃ | 1,1,1-Trifluoroethane, [420-46-2], p.274 |
| 358 | C ₂ H ₃ N | Acetonitrile, [75-05-8], p.274 |
| 359 | C ₂ H ₄ | Ethene, [74-85-1], p.275 |
| 360 | C ₂ H ₄ F ₂ | 1,1-Difluoroethane, [75-37-6], p.276 |
| 361 | C ₂ H ₄ O | Oxirane, [75-21-8], p.277 |
| 362 | C ₂ H ₄ O ₂ | Ethanoic acid, [64-19-7], p.277 |
| 363 | C ₂ H ₆ | Ethane, [74-84-0], p.277 |
| 364 | C ₃ HF ₇ | 1,1,1,2,3,3,3-Heptafluoropropane, [431-89-0], p.279 |
| 365 | C ₃ H ₂ F ₆ | 1,1,1,2,3,3-Hexafluoropropane, [431-63-0], p.279 |
| 366 | C ₃ H ₃ F ₅ | 1,1,2,2,3-Pentafluoropropane, [679-86-7], p.279 |
| 367 | C ₃ H ₄ | 1-Propyne, [74-99-7], p.279 |
| 368 | C ₃ H ₆ | Propene, [115-07-1], p.280 |
| 369 | C ₃ H ₆ Cl ₂ | 2,2-Dichloropropane, [594-20-7], p.280 |
| 370 | C ₃ H ₆ O | Propanone, [67-64-1], p.281 |
| 371 | C ₃ H ₆ O ₂ | Methyl ethanoate, [79-20-9], p.281 |
| 372 | C ₃ H ₈ | Propane, [74-98-6], p.281 |
| 373 | C ₃ H ₈ O | 2-Propanol, [67-63-0], p.282 |
| 374 | C ₃ H ₈ O | 1-Propanol, [71-23-8], p.282 |
| 375 | C ₄ F ₈ | Octafluorocyclobutane, [115-25-3], p.283 |
| 376 | C ₄ H ₂ F ₈ | 1,1,1,2,2,3,3,4-Octafluorobutane, [662-35-1], 283 |
| 377 | C ₄ H ₈ | 1-Butene, [106-98-9], p.283 |
| 378 | C ₄ H ₉ Cl | 2-Chloro-2-methylpropane, [507-20-0], p.283 |
| 379 | C ₄ H ₁₀ | Butane, [106-97-8], p.284 |
| 380 | C ₄ H ₁₀ | 2-Methylpropane, [75-28-5], p.284 |

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| 382 | $C_4H_{10}O$ | Diethyl ether, [60-29-7], p.285 |
| 383 | $C_4H_{10}N$ | <i>N,N</i> -Diethylamine, [109-89-7], p.285 |
| 384 | C_5H_{12} | 2,2-Dimethylpropane, [463-82-1], p.286 |
| 385 | C_5H_{12} | 2-Methylbutane, [78-78-4], p.286 |
| 386 | C_5H_{12} | Pentane, [109-66-0], p.287 |
| 387 | C_6F_6 | Hexafluorobenzene, [392-56-3], p.287 |
| 388 | C_6F_{12} | Dodecafluorocyclohexane, [355-68-0], p.288 |
| 389 | C_6F_{14} | 2,3- <i>bis</i> (Trifluoromethyl)-perfluorobutane, 288 |
| 390 | C_6F_{14} | Tetradecafluorohexane, [355-42-0], p.288 |
| 391 | C_6F_{14} | Undecafluoro-2-(trifluoromethyl)pentane, [355-04-4], p.288 |
| 392 | C_6H_5F | Fluorobenzene, [462-06-6], p.288 |
| 393 | C_6H_6 | Benzene, [71-43-2], p.289 |
| 394 | C_6H_{12} | Cyclohexane, [110-82-7], p.289 |
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| 396 | C_6H_{14} | 2,3-Dimethylbutane, [79-29-8], p.290 |
| 397 | C_6H_{14} | 2-Methylpentane, [107-83-5], p.290 |
| 398 | C_6H_{14} | 3-Methylpentane, [96-14-0], p.290 |
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