

Propylene oxide

Other names:	(. +/-.)-1,2-Epoxypropane (. +/-.)-Methyloxirane 1,2-Epoxypropane 1,2-Propylene oxide 2,3-Epoxypropane 2-Methyl oxirane 2-Methyloxiran 3-Methyl-1,2-epoxypropane AD 6 AD 6 (suspending agent) DL-methyloxirane Epihydrin Epoxypropane Ethylene oxide, methyl- METHYL OXIRANE Methylethylene oxide Methyloxacyclopropane Methyloxirane NCI-C50099 Oxirane, 2-methyl- Oxirane, methyl- Oxyde de propylene Propane, 1,2-epoxy- Propane, epoxy- Propene oxide Propylene epoxide UN 1280
Inchi:	InChI=1S/C3H6O/c1-3-2-4-3/h3H,2H2,1H3
InchiKey:	GOOHAUXETOMSMU-UHFFFAOYSA-N
Formula:	C3H6O
SMILES:	CC1CO1
Mol. weight [g/mol]:	58.08
CAS:	75-56-9

Physical Properties

Property code	Value	Unit	Source
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af	0.2690		KDB
affp	803.30	kJ/mol	NIST Webbook
basg	772.70	kJ/mol	NIST Webbook
chl	-1893.00	kJ/mol	NIST Webbook
chl	-1885.00	kJ/mol	NIST Webbook
chl	-1917.40 ± 1.10	kJ/mol	NIST Webbook
dm	2.00	debye	KDB
gf	-25.80	kJ/mol	KDB
hf	-117.10	kJ/mol	NIST Webbook
hf	-94.68 ± 0.63	kJ/mol	NIST Webbook
hf	-92.82	kJ/mol	KDB
hfl	-145.00	kJ/mol	NIST Webbook
hfl	-122.60 ± 0.63	kJ/mol	NIST Webbook
hfus	9.64	kJ/mol	Joback Method
hvap	27.90	kJ/mol	NIST Webbook
hvap	27.90	kJ/mol	NIST Webbook
hvap	27.90	kJ/mol	NIST Webbook
hvap	28.31	kJ/mol	NIST Webbook
ie	10.26	eV	NIST Webbook
ie	10.10	eV	NIST Webbook
ie	10.44	eV	NIST Webbook
ie	10.22 ± 0.02	eV	NIST Webbook
ie	10.22 ± 0.02	eV	NIST Webbook
log10ws	-0.59		Aqueous Solubility Prediction Method
logp	0.405		Crippen Method
mcvol	48.140	ml/mol	McGowan Method
pc	4922.84 ± 34.47	kPa	NIST Webbook
pc	4920.00	kPa	KDB
pc	5440.00 ± 101.32	kPa	NIST Webbook
rhoc	299.11 ± 5.81	kg/m3	NIST Webbook
rinpol	477.00		NIST Webbook
rinpol	447.00		NIST Webbook
rinpol	460.00		NIST Webbook
rinpol	448.00		NIST Webbook
rinpol	447.00		NIST Webbook
rinpol	447.00		NIST Webbook
sg	287.40 ± 0.84	J/mol×K	NIST Webbook
sl	196.27	J/mol×K	NIST Webbook
sl	194.60	J/mol×K	NIST Webbook
tb	308.15 ± 1.50	K	NIST Webbook
tb	307.70	K	NIST Webbook
tb	307.45	K	NIST Webbook
tb	307.90 ± 1.00	K	NIST Webbook
tb	307.97 ± 0.40	K	NIST Webbook

tb	308.00 ± 1.00	K	NIST Webbook
tb	308.00	K	KDB
tb	308.20	K	NIST Webbook
tc	482.30 ± 1.00	K	NIST Webbook
tc	482.20	K	KDB
tc	488.20 ± 5.00	K	NIST Webbook
tf	161.02 ± 0.05	K	NIST Webbook
tf	161.25	K	NIST Webbook
tf	161.22	K	KDB
tf	161.18	K	Aqueous Solubility Prediction Method
tt	161.22 ± 0.05	K	NIST Webbook
tt	161.25 ± 0.02	K	NIST Webbook
tt	161.22 ± 0.02	K	NIST Webbook
vc	0.186 ± 0.005	m3/kmol	NIST Webbook
vc	0.195 ± 0.002	m3/kmol	NIST Webbook
vc	0.186	m3/kmol	KDB
zc	0.2282520		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	110.26	J/mol×K	481.72	Joback Method
cpg	98.56	J/mol×K	421.72	Joback Method
cpg	104.58	J/mol×K	451.72	Joback Method
cpg	70.70	J/mol×K	301.73	Joback Method
cpg	78.27	J/mol×K	331.73	Joback Method
cpg	85.43	J/mol×K	361.73	Joback Method
cpg	92.19	J/mol×K	391.72	Joback Method
cpl	125.10	J/mol×K	298.15	NIST Webbook
cpl	122.19	J/mol×K	300.00	NIST Webbook
dvisc	0.0002810	Pa×s	257.18	Joback Method
dvisc	0.0002557	Pa×s	279.46	Joback Method
dvisc	0.0002360	Pa×s	301.73	Joback Method
dvisc	0.0005257	Pa×s	168.08	Joback Method
dvisc	0.0004254	Pa×s	190.35	Joback Method
dvisc	0.0003599	Pa×s	212.63	Joback Method
dvisc	0.0003143	Pa×s	234.91	Joback Method
hfust	6.57	kJ/mol	161.25	NIST Webbook
hfust	6.57	kJ/mol	161.30	NIST Webbook
hfust	6.53	kJ/mol	161.20	NIST Webbook

hfust	6.53	kJ/mol	161.22	NIST Webbook
hfust	6.57	kJ/mol	161.30	NIST Webbook
hvapt	30.10	kJ/mol	278.50	NIST Webbook
hvapt	28.20	kJ/mol	303.50	NIST Webbook
hvapt	32.90	kJ/mol	274.50	NIST Webbook
hvapt	26.99	kJ/mol	307.30	KDB
hvapt	27.35	kJ/mol	307.70	NIST Webbook
hvapt	31.60	kJ/mol	266.50	NIST Webbook
hvapt	28.50	kJ/mol	318.50	NIST Webbook
pvap	237.88	kPa	333.15	Isothermal (vapor + liquid) equilibria for the binary mixtures of (propylene oxide + ethanol) and (propylene oxide + 1-propanol) at several temperatures
pvap	86.90	kPa	303.15	Isothermal (vapor + liquid) equilibria for the binary mixtures of (propylene oxide + ethanol) and (propylene oxide + 1-propanol) at several temperatures
pvap	147.85	kPa	318.15	Isothermal (vapor + liquid) equilibria for the binary mixtures of (propylene oxide + ethanol) and (propylene oxide + 1-propanol) at several temperatures
rhoI	829.00	kg/m3	293.00	KDB
sfust	40.74	J/mol×K	161.25	NIST Webbook
sfust	40.52	J/mol×K	161.22	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39516e+01
Coeff. B	-2.40980e+03

Coeff. C	-4.89550e+01
Temperature range (K), min.	225.32
Temperature range (K), max.	329.22

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	8.12879e+01
Coeff. B	-5.89984e+03
Coeff. C	-1.02173e+01
Coeff. D	1.10873e-05
Temperature range (K), min.	161.22
Temperature range (K), max.	482.25

Sources

Isothermal (vapor + liquid) equilibria for the binary mixtures of (propylene oxide + 2-methyl-1-pentene) at temperatures: 225.32, 240.00, 254.67, 269.33, 284.00, 298.67, 313.33, 328.00, 342.67, 357.33, 372.00, 386.67, 401.33, 416.00, 430.67, 445.33, 460.00, 474.67, 489.33, 504.00, 518.67, 533.33, 548.00, 562.67, 577.33, 592.00, 606.67, 621.33, 636.00, 650.67, 665.33, 680.00, 694.67, 709.33, 724.00, 738.67, 753.33, 768.00, 782.67, 797.33, 812.00, 826.67, 841.33, 856.00, 870.67, 885.33, 900.00, 914.67, 929.33, 944.00, 958.67, 973.33, 988.00, 1002.67, 1017.33, 1032.00, 1046.67, 1061.33, 1076.00, 1090.67, 1105.33, 1120.00, 1134.67, 1149.33, 1164.00, 1178.67, 1193.33, 1208.00, 1222.67, 1237.33, 1252.00, 1266.67, 1281.33, 1296.00, 1310.67, 1325.33, 1340.00, 1354.67, 1369.33, 1384.00, 1398.67, 1413.33, 1428.00, 1442.67, 1457.33, 1472.00, 1486.67, 1501.33, 1516.00, 1530.67, 1545.33, 1560.00, 1574.67, 1589.33, 1604.00, 1618.67, 1633.33, 1648.00, 1662.67, 1677.33, 1692.00, 1706.67, 1721.33, 1736.00, 1750.67, 1765.33, 1780.00, 1794.67, 1809.33, 1824.00, 1838.67, 1853.33, 1868.00, 1882.67, 1897.33, 1912.00, 1926.67, 1941.33, 1956.00, 1970.67, 1985.33, 2000.00, 2014.67, 2029.33, 2044.00, 2058.67, 2073.33, 2088.00, 2102.67, 2117.33, 2132.00, 2146.67, 2161.33, 2176.00, 2190.67, 2205.33, 2220.00, 2234.67, 2249.33, 2264.00, 2278.67, 2293.33, 2308.00, 2322.67, 2337.33, 2352.00, 2366.67, 2381.33, 2396.00, 2410.67, 2425.33, 2440.00, 2454.67, 2469.33, 2484.00, 2498.67, 2513.33, 2528.00, 2542.67, 2557.33, 2572.00, 2586.67, 2601.33, 2616.00, 2630.67, 2645.33, 2660.00, 2674.67, 2689.33, 2704.00, 2718.67, 2733.33, 2748.00, 2762.67, 2777.33, 2792.00, 2806.67, 2821.33, 2836.00, 2850.67, 2865.33, 2880.00, 2894.67, 2909.33, 2924.00, 2938.67, 2953.33, 2968.00, 2982.67, 2997.33, 3012.00, 3026.67, 3041.33, 3056.00, 3070.67, 3085.33, 3100.00, 3114.67, 3129.33, 3144.00, 3158.67, 3173.33, 3188.00, 3202.67, 3217.33, 3232.00, 3246.67, 3261.33, 3276.00, 3290.67, 3305.33, 3320.00, 3334.67, 3349.33, 3364.00, 3378.67, 3393.33, 3408.00, 3422.67, 3437.33, 3452.00, 3466.67, 3481.33, 3496.00, 3510.67, 3525.33, 3540.00, 3554.67, 3569.33, 3584.00, 3598.67, 3613.33, 3628.00, 3642.67, 3657.33, 3672.00, 3686.67, 3701.33, 3716.00, 3730.67, 3745.33, 3760.00, 3774.67, 3789.33, 3804.00, 3818.67, 3833.33, 3848.00, 3862.67, 3877.33, 3892.00, 3906.67, 3921.33, 3936.00, 3950.67, 3965.33, 3980.00, 3994.67, 4009.33, 4024.00, 4038.67, 4053.33, 4068.00, 4082.67, 4097.33, 4112.00, 4126.67, 4141.33, 4156.00, 4170.67, 4185.33, 4200.00, 4214.67, 4229.33, 4244.00, 4258.67, 4273.33, 4288.00, 4302.67, 4317.33, 4332.00, 4346.67, 4361.33, 4376.00, 4390.67, 4405.33, 4420.00, 4434.67, 4449.33, 4464.00, 4478.67, 4493.33, 4508.00, 4522.67, 4537.33, 4552.00, 4566.67, 4581.33, 4596.00, 4610.67, 4625.33, 4640.00, 4654.67, 4669.33, 4684.00, 4698.67, 4713.33, 4728.00, 4742.67, 4757.33, 4772.00, 4786.67, 4801.33, 4816.00, 4830.67, 4845.33, 4860.00, 4874.67, 4889.33, 4904.00, 4918.67, 4933.33, 4948.00, 4962.67, 4977.33, 4992.00, 5006.67, 5021.33, 5036.00, 5050.67, 5065.33, 5080.00, 5094.67, 5109.33, 5124.00, 5138.67, 5153.33, 5168.00, 5182.67, 5197.33, 5212.00, 5226.67, 5241.33, 5256.00, 5270.67, 5285.33, 5300.00, 5314.67, 5329.33, 5344.00, 5358.67, 5373.33, 5388.00, 5402.67, 5417.33, 5432.00, 5446.67, 5461.33, 5476.00, 5490.67, 5505.33, 5520.00, 5534.67, 5549.33, 5564.00, 5578.67, 5593.33, 5608.00, 5622.67, 5637.33, 5652.00, 5666.67, 5681.33, 5696.00, 5710.67, 5725.33, 5740.00, 5754.67, 5769.33, 5784.00, 5798.67, 5813.33, 5828.00, 5842.67, 5857.33, 5872.00, 5886.67, 5901.33, 5916.00, 5930.67, 5945.33, 5960.00, 5974.67, 5989.33, 6004.00, 6018.67, 6033.33, 6048.00, 6062.67, 6077.33, 6092.00, 6106.67, 6121.33, 6136.00, 6150.67, 6165.33, 6180.00, 6194.67, 6209.33, 6224.00, 6238.67, 6253.33, 6268.00, 6282.67, 6297.33, 6312.00, 6326.67, 6341.33, 6356.00, 6370.67, 6385.33, 6400.00, 6414.67, 6429.33, 6444.00, 6458.67, 6473.33, 6488.00, 6502.67, 6517.33, 6532.00, 6546.67, 6561.33, 6576.00, 6590.67, 6605.33, 6620.00, 6634.67, 6649.33, 6664.00, 6678.67, 6693.33, 6708.00, 6722.67, 6737.33, 6752.00, 6766.67, 6781.33, 6796.00, 6810.67, 6825.33, 6840.00, 6854.67, 6869.33, 6884.00, 6898.67, 6913.33, 6928.00, 6942.67, 6957.33, 6972.00, 6986.67, 7001.33, 7016.00, 7030.67, 7045.33, 7060.00, 7074.67, 7089.33, 7104.00, 7118.67, 7133.33, 7148.00, 7162.67, 7177.33, 7192.00, 7206.67, 7221.33, 7236.00, 7250.67, 7265.33, 7280.00, 7294.67, 7309.33, 7324.00, 7338.67, 7353.33, 7368.00, 7382.67, 7397.33, 7412.00, 7426.67, 7441.33, 7456.00, 7470.67, 7485.33, 7500.00, 7514.67, 7529.33, 7544.00, 7558.67, 7573.33, 7588.00, 7602.67, 7617.33, 7632.00, 7646.67, 7661.33, 7676.00, 7690.67, 7705.33, 7720.00, 7734.67, 7749.33, 7764.00, 7778.67, 7793.33, 7808.00, 7822.67, 7837.33, 7852.00, 7866.67, 7881.33, 7896.00, 7910.67, 7925.33, 7940.00, 7954.67, 7969.33, 7984.00, 7998.67, 8013.33, 8028.00, 8042.67, 8057.33, 8072.00, 8086.67, 8101.33, 8116.00, 8130.67, 8145.33, 8160.00, 8174.67, 8189.33, 8204.00, 8218.67, 8233.33, 8248.00, 8262.67, 8277.33, 8292.00, 8306.67, 8321.33, 8336.00, 8350.67, 8365.33, 8380.00, 8394.67, 8409.33, 8424.00, 8438.67, 8453.33, 8468.00, 8482.67, 8497.33, 8512.00, 8526.67, 8541.33, 8556.00, 8570.67, 8585.33, 8600.00, 8614.67, 8629.33, 8644.00, 8658.67, 8673.33, 8688.00, 8702.67, 8717.33, 8732.00, 8746.67, 8761.33, 8776.00, 8790.67, 8805.33, 8820.00, 8834.67, 8849.33, 8864.00, 8878.67, 8893.33, 8908.00, 8922.67, 8937.33, 8952.00, 8966.67, 8981.33, 8996.00, 9010.67, 9025.33, 9040.00, 9054.67, 9069.33, 9084.00, 9098.67, 9113.33, 9128.00, 9142.67, 9157.33, 9172.00, 9186.67, 9201.33, 9216.00, 9230.67, 9245.33, 9260.00, 9274.67, 9289.33, 9304.00, 9318.67, 9333.33, 9348.00, 9362.67, 9377.33, 9392.00, 9406.67, 9421.33, 9436.00, 9450.67, 9465.33, 9480.00, 9494.67, 9509.33, 9524.00, 9538.67, 9553.33, 9568.00, 9582.67, 9597.33, 9612.00, 9626.67, 9641.33, 9656.00, 9670.67, 9685.33, 9700.00, 9714.67, 9729.33, 9744.00, 9758.67, 9773.33, 9788.00, 9802.67, 9817.33, 9832.00, 9846.67, 9861.33, 9876.00, 9890.67, 9905.33, 9920.00, 9934.67, 9949.33, 9964.00, 9978.67, 9993.33, 10008.00, 10022.67, 10037.33, 10052.00, 10066.67, 10081.33, 10096.00, 10110.67, 10125.33, 10140.00, 10154.67, 10169.33, 10184.00, 10198.67, 10213.33, 10228.00, 10242.67, 10257.33, 10272.00, 10286.67, 10301.33, 10316.00, 10330.67, 10345.33, 10360.00, 10374.67, 10389.33, 10404.00, 10418.67, 10433.33, 10448.00, 10462.67, 10477.33, 10492.00, 10506.67, 10521.33, 10536.00, 10550.67, 10565.33, 10580.00, 10594.67, 10609.33, 10624.00, 10638.67, 10653.33, 10668.00, 10682.67, 10697.33, 10712.00, 10726.67, 10741.33, 10756.00, 10770.67, 10785.33, 10800.00, 10814.67, 10829.33, 10844.00, 10858.67, 10873.33, 10888.00, 10902.67, 10917.33, 10932.00, 10946.67, 10961.33, 10976.00, 10990.67, 11005.33, 11020.00, 11034.67, 11049.33, 11064.00, 11078.67, 11093.33, 11108.00, 11122.67, 11137.33, 11152.00, 11166.67, 11181.33, 11196.00, 11210.67, 11225.33, 11240.00, 11254.67, 11269.33, 11284.00, 11298.67, 11313.33, 11328.00, 11342.67, 11357.33, 11372.00, 11386.67, 11401.33, 11416.00, 11430.67, 11445.33, 11460.00, 11474.67, 11489.33, 11504.00, 11518.67, 11533.33, 11548.00, 11562.67, 11577.33, 11592.00, 11606.67, 11621.33, 11636.00, 11650.67, 11665.33, 11680.00, 11694.67, 11709.33, 11724.00, 11738.67, 11753.33, 11768.00, 11782.67, 11797.33, 11812.00, 11826.67, 11841.33, 11856.00, 11870.67, 11885.33, 11900.00, 11914.67, 11929.33, 11944.00, 11958.67, 11973.33, 11988.00, 12002.67, 12017.33, 12032.00, 12046.67, 12061.33, 12076.00, 12090.67, 12105.33, 12120.00, 12134.67, 12149.33, 12164.00, 12178.67, 12193.33, 12208.00, 12222.67, 12237.33, 12252.00, 12266.67, 12281.33, 12296.00, 12310.67, 12325.33, 12340.00, 12354.67, 12369.33, 12384.00, 12398.67, 12413.33, 12428.00, 12442.67, 12457.33, 12472.00, 12486.67, 12501.33, 12516.00, 12530.67, 12545.33, 12560.00, 12574.67, 12589.33, 12604.00, 12618.67, 12633.33, 12648.00, 12662.67, 12677.33, 12692.00, 12706.67, 12721.33, 12736.00, 12750.67, 12765.33, 12780.00, 12794.67, 12809.33, 12824.00, 12838.67, 12853.33, 12868.00, 12882.67, 12897.33, 12912.00, 12926.67, 12941.33, 12956.00, 12970.67, 12985.33, 13000.00, 13014.67, 13029.33, 13044.00, 13058.67, 13073.33, 13088.00, 13102.67, 13117.33, 13132.00, 13146.67, 13161.33, 13176.00, 13190.67, 13205.33, 13220.00, 13234.67, 13249.33, 13264.00, 13278.67, 13293.33, 13308.00, 13322.67, 13337.33, 13352.00, 13366.67, 13381.33, 13396.00, 13410.67, 13425.33, 13440.00, 13454.67, 13469.33, 13484.00, 13498.67, 13513.33, 13528.00, 13542.67, 13557.33, 13572.00, 13586.67, 13601.33, 13616.00, 13630.67, 13645.33, 13660.00, 13674.67, 13689.33, 13704.00, 13718.67, 13733.33, 13748.00, 13762.67, 13777.33, 13792.00, 13806.67, 13821.33, 13836.00, 13850.67, 13865.33, 13880.00, 13894.67, 13909.33, 13924.00, 13938.67, 13953.33, 13968.00, 13982.67, 13997.33, 14012.00, 14026.67, 14041.33, 14056.00, 14070.67, 14085.33, 14100.00, 14114.67, 14129.33, 14144.00, 14158.67, 14173.33, 14188.00, 14202.67, 14217.33, 14232.00, 14246.67, 14261.33, 14276.00, 14290.67, 14305.33, 14320.00, 14334.67, 14349.33, 14364.00, 14378.67, 14393.33, 14408.00, 14422.67, 14437.33, 14452.00, 14466.67, 14481.33, 14496.00, 14510.67, 14525.33, 14540.00, 14554.67, 14569.33, 14584.00, 14598.67, 14613.33, 14628.00, 14642.67, 14657.33, 14672.00, 14686.67, 14701.33, 14716.00, 14730.67, 14745.33, 14760.00, 14774.67, 14789.33, 14804.00, 14818.67, 14833.33, 14848.00, 14862.67, 14877.33, 14892.00, 14906.67, 14921.33, 14936.00, 14950.67, 14965.33, 14980.00, 14994.67, 15009.33, 15024.00, 15038.67, 15053.33, 15068.00, 15082.67, 15097.33, 15112.00, 15126.67, 15141.33, 15156.00, 15170.67, 15185.33, 15200.00, 15214.67, 15229.33, 15244.00, 15258.67, 15273.33, 15288.00, 15302.67, 15317.33, 15332.00, 15346.67, 15361.33, 15376.00, 15390.67, 15405.33, 15420.00, 15434.67, 15449.33, 15464.00, 15478.67, 15493.33, 15508.00, 15522.67, 15537.33, 15552.00, 15566.67, 15581.33, 15596.00, 15610.67, 15625.33, 15640.00, 15654.67, 15669.33, 15684.00, 15698.67, 15713.33, 15728.00, 15742.67, 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dm:	Dipole Moment
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rhoc:	Critical density
rhof:	Liquid Density
rinpol:	Non-polar retention indices
sfust:	Entropy of fusion at a given temperature
sg:	Molar entropy at standard conditions
sl:	Liquid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility

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