

# Butanoic acid, butyl ester

<b>Other names:</b>	1-Butyl butyrate BUTYL BUTANOATE BUTYL ESTER BUTANOIC ACID Butyl butylate Butyl butyrate Butyl ester of butanoic acid Butyl n-butyrate Butyric acid, butyl ester N-BUTYL BUTYRATE N-BUTYL N-BUTYRATE NSC 8458 n-Butyl butanoate n-Butyl n-butanoate n-Butyric acid n-butyl ester
<b>Inchi:</b>	InChI=1S/C8H16O2/c1-3-5-7-10-8(9)6-4-2/h3-7H2,1-2H3
<b>InchiKey:</b>	XUPYJHCZDLZNFP-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O2
<b>SMILES:</b>	CCCCOC(=O)CCC
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	109-21-7

## Physical Properties

Property code	Value	Unit	Source
chl	-4844.20	kJ/mol	NIST Webbook
gf	-217.44	kJ/mol	Joback Method
hf	-453.25	kJ/mol	Joback Method
hfus	19.26	kJ/mol	Joback Method
hvap	42.56	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	2.130		Crippen Method
mcvol	131.020	ml/mol	McGowan Method
pc	2657.03	kPa	Joback Method
rinpol	980.00		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	1004.00		NIST Webbook

rinpol	993.00	NIST Webbook
rinpol	999.00	NIST Webbook
rinpol	993.00	NIST Webbook
rinpol	993.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	993.00	NIST Webbook
rinpol	969.00	NIST Webbook
rinpol	981.00	NIST Webbook
rinpol	979.40	NIST Webbook
rinpol	979.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	994.00	NIST Webbook
rinpol	1000.00	NIST Webbook
rinpol	995.00	NIST Webbook
rinpol	994.00	NIST Webbook
rinpol	966.00	NIST Webbook
rinpol	987.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	979.00	NIST Webbook
rinpol	979.00	NIST Webbook
rinpol	978.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	1009.00	NIST Webbook
rinpol	997.00	NIST Webbook
rinpol	979.00	NIST Webbook
rinpol	995.00	NIST Webbook
rinpol	997.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	986.00	NIST Webbook
rinpol	992.00	NIST Webbook
rinpol	1002.00	NIST Webbook
rinpol	970.00	NIST Webbook
rinpol	985.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	994.00	NIST Webbook
rinpol	994.00	NIST Webbook

rinpol	990.00	NIST Webbook
rinpol	998.00	NIST Webbook
rinpol	1001.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	975.00	NIST Webbook
rinpol	982.00	NIST Webbook
rinpol	978.00	NIST Webbook
rinpol	999.00	NIST Webbook
rinpol	978.00	NIST Webbook
rinpol	985.00	NIST Webbook
rinpol	969.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	1002.00	NIST Webbook
rinpol	1002.00	NIST Webbook
rinpol	994.00	NIST Webbook
rinpol	998.00	NIST Webbook
rinpol	993.00	NIST Webbook
rinpol	993.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	969.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	985.00	NIST Webbook
rinpol	983.00	NIST Webbook
rinpol	978.00	NIST Webbook
rinpol	982.00	NIST Webbook
rinpol	982.00	NIST Webbook
rinpol	990.00	NIST Webbook
rinpol	982.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	983.00	NIST Webbook
rinpol	979.40	NIST Webbook
rinpol	991.00	NIST Webbook
rinpol	982.00	NIST Webbook
rinpol	985.00	NIST Webbook
rinpol	978.00	NIST Webbook
rinpol	978.00	NIST Webbook
rinpol	940.00	NIST Webbook
rinpol	969.00	NIST Webbook
rinpol	977.00	NIST Webbook
rinpol	980.00	NIST Webbook
rinpol	985.00	NIST Webbook
rinpol	975.00	NIST Webbook
ripol	1214.00	NIST Webbook
ripol	1215.00	NIST Webbook

ripol	1230.00	NIST Webbook
ripol	1251.00	NIST Webbook
ripol	1221.00	NIST Webbook
ripol	1221.00	NIST Webbook
ripol	1245.00	NIST Webbook
ripol	1232.00	NIST Webbook
ripol	1213.00	NIST Webbook
ripol	1215.00	NIST Webbook
ripol	1196.00	NIST Webbook
ripol	1224.00	NIST Webbook
ripol	1207.00	NIST Webbook
ripol	1212.00	NIST Webbook
ripol	1215.00	NIST Webbook
ripol	1223.00	NIST Webbook
ripol	1218.00	NIST Webbook
ripol	1231.00	NIST Webbook
ripol	1220.00	NIST Webbook
ripol	1227.00	NIST Webbook
ripol	1228.00	NIST Webbook
ripol	1225.00	NIST Webbook
ripol	1208.00	NIST Webbook
ripol	1240.00	NIST Webbook
ripol	1223.00	NIST Webbook
ripol	1227.00	NIST Webbook
ripol	1216.00	NIST Webbook
ripol	1229.00	NIST Webbook
ripol	1229.00	NIST Webbook
ripol	1229.00	NIST Webbook
ripol	1228.00	NIST Webbook
ripol	1228.00	NIST Webbook
ripol	1220.00	NIST Webbook
ripol	1228.00	NIST Webbook
ripol	1228.00	NIST Webbook
ripol	1225.00	NIST Webbook
ripol	1206.00	NIST Webbook
ripol	1206.00	NIST Webbook
ripol	1218.00	NIST Webbook
ripol	1221.00	NIST Webbook
ripol	1208.00	NIST Webbook
ripol	1219.00	NIST Webbook
ripol	1207.00	NIST Webbook
ripol	1216.00	NIST Webbook
ripol	1226.00	NIST Webbook
ripol	1243.00	NIST Webbook

ripol	1216.00		NIST Webbook
ripol	1205.00		NIST Webbook
ripol	1221.00		NIST Webbook
ripol	1207.00		NIST Webbook
ripol	1219.00		NIST Webbook
ripol	1218.00		NIST Webbook
ripol	1218.00		NIST Webbook
ripol	1210.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1240.00		NIST Webbook
ripol	1201.00		NIST Webbook
tb	439.75 ± 1.00	K	NIST Webbook
tb	439.60 ± 0.40	K	NIST Webbook
tb	438.28	K	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa
tb	438.09	K	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
tb	437.70	K	NIST Webbook
tb	437.00	K	NIST Webbook
tb	438.15 ± 2.00	K	NIST Webbook
tb	439.55 ± 1.00	K	NIST Webbook
tb	439.65 ± 1.00	K	NIST Webbook
tb	439.15 ± 1.00	K	NIST Webbook
tb	439.55 ± 0.30	K	NIST Webbook
tb	438.00 ± 2.00	K	NIST Webbook
tb	437.15 ± 1.00	K	NIST Webbook
tb	439.40 ± 1.00	K	NIST Webbook
tb	436.75 ± 1.00	K	NIST Webbook
tb	438.90 ± 1.50	K	NIST Webbook
tb	437.65 ± 1.00	K	NIST Webbook
tc	612.10 ± 0.60	K	NIST Webbook
tf	252.08	K	Joback Method
tt	181.68 ± 0.04	K	NIST Webbook
tt	181.58 ± 0.10	K	NIST Webbook
vc	0.507	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.77	J/molxK	633.80	Joback Method
cpg	279.70	J/molxK	458.73	Joback Method
cpg	303.75	J/molxK	517.09	Joback Method
cpg	315.14	J/molxK	546.26	Joback Method
cpg	291.94	J/molxK	487.91	Joback Method
cpg	326.10	J/molxK	575.44	Joback Method
cpg	336.64	J/molxK	604.62	Joback Method
dvisc	0.0004860	Paxs	343.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0008120	Paxs	303.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0008760	Paxs	298.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0009480	Paxs	293.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0007550	Paxs	308.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0007050	Paxs	313.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0006590	Paxs	318.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters

dvisc	0.0006180	Paxs	323.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0005810	Paxs	328.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0005480	Paxs	333.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
dvisc	0.0005170	Paxs	338.15	Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters
hfust	14.93	kJ/mol	181.70	NIST Webbook
hfust	14.93	kJ/mol	181.68	NIST Webbook
pvap	113.34	kPa	442.53	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	64.02	kPa	421.26	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	65.51	kPa	422.07	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	66.81	kPa	422.76	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	67.91	kPa	423.35	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	69.74	kPa	424.29	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	70.42	kPa	424.66	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	72.31	kPa	425.59	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	73.25	kPa	426.07	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	74.67	kPa	426.78	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	76.02	kPa	427.43	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol



pvap	77.34	kPa	428.05	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	78.82	kPa	428.69	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	79.99	kPa	429.28	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	81.71	kPa	430.02	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	82.77	kPa	430.48	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	84.03	kPa	431.04	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	85.54	kPa	431.70	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	86.67	kPa	432.27	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	87.95	kPa	432.82	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	89.55	kPa	433.42	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	90.72	kPa	433.90	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	91.87	kPa	434.46	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	93.35	kPa	435.06	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	94.70	kPa	435.61	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	96.15	kPa	436.09	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	97.30	kPa	436.56	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	98.75	kPa	437.11	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	100.18	kPa	437.66	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	101.32	kPa	438.09	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	102.63	kPa	438.67	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	104.00	kPa	439.18	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	105.50	kPa	439.66	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	106.67	kPa	440.16	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	108.31	kPa	440.68	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	109.48	kPa	441.11	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	110.68	kPa	441.60	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	112.07	kPa	442.01	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	62.83	kPa	420.59	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	114.71	kPa	442.93	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	116.00	kPa	443.44	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	117.43	kPa	443.86	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	118.65	kPa	444.34	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	120.03	kPa	444.78	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	121.28	kPa	445.21	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	122.76	kPa	445.62	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	124.03	kPa	446.04	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	125.37	kPa	446.47	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	126.64	kPa	446.87	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	128.00	kPa	447.33	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	129.33	kPa	447.74	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	130.73	kPa	448.18	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	132.01	kPa	448.54	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	133.41	kPa	448.97	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	134.68	kPa	449.36	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	135.99	kPa	449.75	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	137.35	kPa	450.15	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	138.69	kPa	450.55	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	140.07	kPa	450.94	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	141.21	kPa	451.29	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	142.69	kPa	451.71	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	143.97	kPa	452.07	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	145.69	kPa	452.55	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	146.84	kPa	452.88	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	148.17	kPa	453.25	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	149.33	kPa	453.58	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	150.73	kPa	453.95	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol



pvap	152.16	kPa	454.34	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	153.29	kPa	454.65	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	154.65	kPa	455.02	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	155.97	kPa	455.37	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	157.25	kPa	455.71	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	158.69	kPa	456.09	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	159.94	kPa	456.42	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	161.37	kPa	456.79	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	162.68	kPa	457.13	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	164.01	kPa	457.47	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	61.31	kPa	419.74	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	60.01	kPa	418.98	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	58.78	kPa	418.27	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	57.51	kPa	417.51	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	56.21	kPa	416.72	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	53.34	kPa	414.92	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	52.27	kPa	414.21	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	50.53	kPa	413.11	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	49.58	kPa	412.43	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	48.06	kPa	411.38	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	46.65	kPa	410.43	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

pvap	45.06	kPa	409.28	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	44.16	kPa	408.56	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	42.86	kPa	407.56	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	41.53	kPa	406.59	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	40.28	kPa	405.54	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol
pvap	101.30	kPa	438.28	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa
pvap	54.86	kPa	415.87	Vapor-Liquid Equilibria at 101.32 kPa and Excess Properties of Binary Mixtures of Butyl Esters + tert-Butyl Alcohol

rfi	1.40400	298.15	Thermodynamic study of (alkyl esters + $\alpha,\omega$ -alkyl dihalides)III. HE m and V E m for 20 binary mixtures { $x\text{C}_u\text{H}_{2u-1}\text{CO}_2\text{C}_4\text{H}_9 + (1-x)\alpha,\omega\text{-ClCH}_2(\text{CH}_2)_v\text{-2CH}_2\text{Cl}$ }, where $u = 1$ to 4, $a = 1$ and $v = x = 2$ to 6
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## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.48960e+01
Coeff. B	-3.86487e+03
Coeff. C	-6.29560e+01
Temperature range (K), min.	327.52
Temperature range (K), max.	466.20

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	8.26165e+01
Coeff. B	-8.70435e+03
Coeff. C	-9.68492e+00
Coeff. D	4.03773e-06
Temperature range (K), min.	181.15
Temperature range (K), max.	616.00

## Sources

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## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rfi:</b>	Refractive Index
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

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<https://www.chemeo.com/cid/24-405-5/Butanoic-acid-butyl-ester.pdf>

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