Ethanol, 2-(2-butoxyethoxy)-

Other names:
2-(2-Butoxyethoxy)ethanol
2-(2-n-Butoxyethoxy)ethanol
2-2-Butoxyethoxy;ethanol
3,6-Dioxa-1-decanol
3,6-Dioxadecanol
BuCb
Butadigol
Butoxydiethylene glycol
Butoxydiglycol
Butoxyethoxyethanol
Butyl Carbitol
Butyl Oxitol glycol ether
Butyl di-icinol
Butyl diglycol
Butyl digol
Butyl dioxitol
Diethylene DB
Diethylene glycol butyl ester
Diethylene glycol butyl ether
Diethylene glycol mono-n-butyl ether
Diethylene glycol monobutyl ether
Diethylene glycol n-butyl ether
Diethylene gylcol monobutyl ether
Diglycol monobutyl ether
Dowanol DB
Dowanol OR
Ektasolve DB
Ethanol 2-butoxyethoxy
Ethanol, 2,2'-oxybis-, monobutyl ether
Ethylene glycol monobutyl ether
Glycol ether DB
Glycol, monobutyl ether
Jeffersol DB
NSC 407762
O-Butyl diethylene glycol
Poly-Solv DB
diethylene glycol, n-butyl ether
n-Butyl carbitol

Inchi: InChI=1S/C8H18O3/c1-2-3-5-10-7-8-11-6-4-9/h9H,2-8H2,1H3

InchiKey: OAYXUHPQHDHDDZ-UHFFFAOYSA-N

Formula: C8H18O3
SMILES: CCCCOCCOCCO
Mol. weight [g/mol]: 162.23
CAS: 112-34-5

Physical Properties

Property code	Value	Unit	Source
gf	-330.34	kJ/mol	Joback Method
hf	-625.12	kJ/mol	Joback Method
hfus	22.94	kJ/mol	Joback Method
hvap	54.90	kJ/mol	Joback Method
log10ws	-0.61		Crippen Method
logp	0.812		Crippen Method
mcvol	141.190	ml/mol	McGowan Method
pc	2790.00 ± 70.00	kPa	NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1184.00		NIST Webbook
rinpol	1198.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1194.50		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1196.20		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1211.00		NIST Webbook
rinpol	1186.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1186.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1188.00		NIST Webbook
ripol	1796.00		NIST Webbook
ripol	1760.00		NIST Webbook
ripol	1760.00		NIST Webbook
ripol	1827.00		NIST Webbook
ripol	1823.00		NIST Webbook
ripol	1797.00		NIST Webbook

ripol	1781.00		NIST Webbook
ripol	1791.00		NIST Webbook
ripol	1823.00		NIST Webbook
ripol	1823.00		NIST Webbook
ripol	1797.00		NIST Webbook
ripol	1796.00		NIST Webbook
ripol	1786.00		NIST Webbook
ripol	1786.00		NIST Webbook
ripol	1749.00		NIST Webbook
tb	504.20	K	NIST Webbook
tb	504.35 ± 0.50	K	NIST Webbook
tc	692.30 ± 1.50	K	NIST Webbook
tf	285.20	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.45	J/mol×K	546.11	Joback Method
cpg	392.11	J/mol×K	652.70	Joback Method
cpg	382.23	J/mol×K	626.06	Joback Method
cpg	371.99	J/mol×K	599.41	Joback Method
cpg	361.39	J/mol×K	572.76	Joback Method
cpg	401.64	J/mol×K	679.35	Joback Method
cpg	339.16	J/mol×K	519.46	Joback Method
cpl	362.40	J/mol×K	303.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	373.80	J/mol×K	327.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	372.80	J/mol×K	325.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	371.80	J/mol×K	323.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	370.80	J/mol×K	321.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	368.80	J/mol×K	317.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	367.90	J/mol×K	315.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	366.90	J/mol×K	313.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	374.80	J/mol×K	329.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	

cpl	365.10	J/mol×K	309.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	364.20	J/mol×K	307.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	363.30	J/mol×K	305.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	375.80	J/mol×K	331.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	376.90	J/mol×K	333.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	377.90	J/mol×K	335.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	379.00	J/mol×K	337.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	380.10	J/mol×K	339.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	354.89	J/mol×K	298.15	NIST Webbook
cpl	366.00	J/mol×K	311.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	351.20	J/mol×K	275.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	351.90	J/mol×K	277.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	352.70	J/mol×K	279.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	353.40	J/mol×K	281.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	354.20	J/mol×K	283.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)

cpl	354.90	J/mol×K	285.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	355.70	J/mol×K	287.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	356.50	J/mol×K	289.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	357.30	J/mol×K	291.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	358.10	J/mol×K	293.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	359.00	J/mol×K	295.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	
cpl	359.80	J/mol×K	297.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)	

cpl	360.20	J/mol×K	298.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	360.60	J/mol×K	299.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	361.50	J/mol×K	301.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
cpl	369.80	J/mol×K	319.15	Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm)
dvisc	0.0020000	Pa×s	333.15	Excess Molar Volume and Viscosity Deviation for the Binary Mixture of Diethylene Glycol Monobutyl Ether + Water from (293.15 to 333.15) K at Atmospheric Pressure
dvisc	0.0025100	Pa×s	323.15	Excess Molar Volume and Viscosity Deviation for the Binary Mixture of Diethylene Glycol Monobutyl Ether + Water from (293.15 to 333.15) K at Atmospheric Pressure

dvisc	0.0032200	Pa×s	313.15	Excess Molar Volume and Viscosity Deviation for the Binary Mixture of Diethylene Glycol Monobutyl Ether + Water from (293.15 to 333.15) K at Atmospheric Pressure
dvisc	0.0042300	Pa×s	303.15	Excess Molar Volume and Viscosity Deviation for the Binary Mixture of Diethylene Glycol Monobutyl Ether + Water from (293.15 to 333.15) K at Atmospheric Pressure
dvisc	0.0058400	Pa×s	293.15	Excess Molar Volume and Viscosity Deviation for the Binary Mixture of Diethylene Glycol Monobutyl Ether + Water from (293.15 to 333.15) K at Atmospheric Pressure
hvapt	55.70	kJ/mol	460.00	NIST Webbook
rfi	1.41940		323.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.43470		283.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.43120		293.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures

rfi	1.42805		303.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.42400		313.15	Density, Viscosity, and Refractive Index for Water + 2-Butoxyethanol and + 2-(2-Butoxyethoxy)ethanol at Various Temperatures
rfi	1.42998		298.15	Excess molar volumes and excess molar enthalpies of the binary mixtures of 1,2-dichloropropane with di- and triethylene glycol mono-alkyl ethers at T=298.15K
rfi	1.42950		298.15	Density, Speed of Sound, and Refractive Index of Aqueous Binary Mixtures of Some Glycol Ethers at T = 298.15 K
rhol	918.50	kg/m3	333.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhol	952.29	kg/m3	293.15	FT-IR studies and excess thermodynamic properties of binary liquid mixtures 2-(2-butoxyethoxy) ethanol with 1-hexanol, 1-octanol and 1-decanol at different temperatures

rhol	948.10	kg/m3	298.15	FT-IR studies and excess thermodynamic properties of binary liquid mixtures 2-(2-butoxyethoxy) ethanol with 1-hexanol, 1-octanol and 1-decanol at different temperatures	
rhol	943.91	kg/m3	303.15	FT-IR studies and excess thermodynamic properties of binary liquid mixtures 2-(2-butoxyethoxy) ethanol with 1-hexanol, 1-octanol and 1-decanol at different temperatures	
rhol	939.70	kg/m3	308.15	FT-IR studies and excess thermodynamic properties of binary liquid mixtures 2-(2-butoxyethoxy) ethanol with 1-hexanol, 1-octanol and 1-decanol at different temperatures	
rhol	935.50	kg/m3	313.15	FT-IR studies and excess thermodynamic properties of binary liquid mixtures 2-(2-butoxyethoxy) ethanol with 1-hexanol, 1-octanol and 1-decanol at different temperatures	
rhol	952.90	kg/m3	293.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K	

rhol	943.50	kg/m3	303.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhol	935.70	kg/m3	313.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhol	926.60	kg/m3	323.15	Density and Viscosity for Binary Mixtures of Diethylene Glycol Monobutyl Ether with Monoethanolamine, Diethanolamine, and Triethanolamine from (293.15 to 333.15) K
rhol	947.98	kg/m3	298.15	Speeds of Sound and Isentropic Compressibilities of n-Alkoxyethanols and Polyethers with Propylamine at 298.15K

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.53016e+01
Coeff. B	-4.46698e+03
Coeff. C	-8.60200e+01
Temperature range (K), min.	383.54
Temperature range (K), max.	533.16

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
283.15	100.00	960.4
283.15	1000.00	961.3
283.15	3000.00	962.6
283.15	5000.00	963.4
283.15	10000.00	966.5
283.15	15000.00	969.4
283.15	20000.00	971.9
283.15	25000.00	974.5
283.15	30000.00	977.1
283.15	35000.00	979.1
283.15	40000.00	981.4
283.15	50000.00	986.9
283.15	60000.00	990.4
293.15	100.00	952.4
293.15	1000.00	952.9
293.15	3000.00	954.3
293.15	5000.00	955.2
293.15	10000.00	958.4
293.15	15000.00	961.2
293.15	20000.00	964.0
293.15	25000.00	966.9
293.15	30000.00	969.6
293.15	35000.00	972.0
293.15	40000.00	974.4
293.15	50000.00	979.7
293.15	60000.00	983.9
303.15	100.00	943.8
303.15	1000.00	944.2
303.15	3000.00	946.0
303.15	5000.00	947.0
303.15	10000.00	950.3
303.15	15000.00	953.0
303.15	20000.00	956.0

303.15	25000.00	959.1
303.15	30000.00	962.0
303.15	35000.00	964.7
303.15	40000.00	967.1
303.15	50000.00	972.2
303.15	60000.00	977.1
313.15	100.00	935.5
313.15	1000.00	935.9
313.15	3000.00	937.2
313.15	5000.00	938.8
313.15	10000.00	942.0
313.15	15000.00	945.2
313.15	20000.00	948.4
313.15	25000.00	951.2
313.15	30000.00	953.8
313.15	35000.00	956.9
313.15	40000.00	959.7
313.15	50000.00	965.0
313.15	60000.00	969.7
323.15	100.00	927.0
323.15	1000.00	927.3
323.15	3000.00	928.8
323.15	5000.00	930.3
323.15	10000.00	933.8
323.15	15000.00	937.2
323.15	20000.00	940.4
323.15	25000.00	943.5
323.15	30000.00	946.4
323.15	35000.00	949.5
323.15	40000.00	952.5
323.15	50000.00	958.2
323.15	60000.00	963.4
333.15	100.00	917.8
333.15	1000.00	918.7
333.15	3000.00	920.7
333.15	5000.00	922.2
333.15	10000.00	925.7
333.15	15000.00	929.2
333.15	20000.00	932.5
333.15	25000.00	935.5
333.15	30000.00	939.0
333.15	35000.00	942.0
333.15	40000.00	945.2
333.15	50000.00	950.6

333.15	60000.00	956.0
343.15	100.00	909.1
343.15	1000.00	910.5
343.15	3000.00	912.35
343.15	5000.00	913.6
343.15	10000.00	917.6
343.15	15000.00	921.3
343.15	20000.00	924.7
343.15	25000.00	928.1
343.15	30000.00	931.3
343.15	35000.00	934.4
343.15	40000.00	937.3
343.15	50000.00	943.2
343.15	60000.00	948.8
353.15	100.00	901.1
353.15	1000.00	902.1
353.15	3000.00	903.9
353.15	5000.00	905.3
353.15	10000.00	909.3
353.15	15000.00	913.1
353.15	20000.00	916.8
353.15	25000.00	920.3
353.15	30000.00	923.7
353.15	35000.00	927.1
353.15	40000.00	930.3
353.15	50000.00	936.3
353.15	60000.00	942.2
363.15	100.00	892.6
363.15	1000.00	893.2
363.15	3000.00	894.9
363.15	5000.00	896.7
363.15	10000.00	900.4
363.15	15000.00	904.8
363.15	20000.00	908.5
363.15	25000.00	912.1
363.15	30000.00	915.7
363.15	35000.00	919.2
363.15	40000.00	922.7
363.15	50000.00	929.1
363.15	60000.00	935.2

Reference *https://www.doi.org/10.1021/acs.jced.6b00192*

Temperature, K	Pressure, kPa	Mass density, kg/m3

283.15	100.00	960.5
283.15	1000.00	961.0
283.15	2500.00	961.9
283.15	5000.00	963.4
283.15	7500.00	964.9
283.15	10000.00	966.3
283.15	15000.00	969.1
283.15	20000.00	971.8
283.15	25000.00	974.4
293.15	100.00	952.2
293.15	1000.00	952.7
293.15	2500.00	953.7
293.15	5000.00	955.2
293.15	7500.00	956.7
293.15	10000.00	958.2
293.15	15000.00	961.1
293.15	20000.00	963.9
293.15	25000.00	966.7
303.15	100.00	943.8
303.15	1000.00	944.3
303.15	2500.00	945.3
303.15	5000.00	946.9
303.15	7500.00	948.5
303.15	10000.00	950.1
303.15	15000.00	953.1
303.15	20000.00	956.1
303.15	25000.00	959.0
313.15	100.00	935.3
313.15	1000.00	935.9
313.15	2500.00	936.9
313.15	5000.00	938.6
313.15	7500.00	940.3
313.15	10000.00	941.9
313.15	15000.00	945.1
313.15	20000.00	948.2
313.15	25000.00	951.2
323.15	100.00	926.6
323.15	1000.00	927.2
323.15	2500.00	928.3
323.15	5000.00	930.1
323.15	7500.00	931.8
323.15	10000.00	933.5
323.15	15000.00	936.9
323.15	20000.00	940.1

323.15	25000.00	943.2
333.15	100.00	917.8
333.15	1000.00	918.5
333.15	2500.00	919.7
333.15	5000.00	921.6
333.15	7500.00	923.4
333.15	10000.00	925.2
333.15	15000.00	928.7
333.15	20000.00	932.0
333.15	25000.00	935.2
343.15	100.00	909.7
343.15	1000.00	910.4
343.15	2500.00	911.6
343.15	5000.00	913.6
343.15	7500.00	915.5
343.15	10000.00	917.4
343.15	15000.00	921.1
343.15	20000.00	924.6
343.15	25000.00	928.0
353.15	100.00	900.9
353.15	1000.00	901.7
353.15	2500.00	903.0
353.15	5000.00	905.0
353.15	7500.00	907.1
353.15	10000.00	909.1
353.15	15000.00	912.9
353.15	20000.00	916.6
353.15	25000.00	920.1

Reference *https://www.doi.org/10.1021/je049893r*

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Solubility of dibenzothiophene in pure organic solvents: Experimental measurement and thermodynamic modelling:	https://www.doi.org/10.1021/je6005357
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N-Methyl-2-pyrrolidone, and Diethylene Glycol Monobutyl Ether at Elevated Pressures:	https://www.doi.org/10.1016/j.jct.2018.09.017
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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Measurement and Prediction of Molar Heat Capacities of Liquid Polyoxyethylene Glycol Monoalkyl Ethers (CnEm):	https://www.doi.org/10.1021/acs.jced.5b00051
Densities of Diethylene Glycol Monobutyl Ether, Diethylene Glycol Dibutyl Ether, and Ethylene Glycol Monobutyl Ether from (283.15 to 363.15) K at Pressures up to 60 MPa:	https://www.doi.org/10.1021/acs.jced.6b00192
PpT Measurements and EoS Predictions of Glycol Ethers from (283.15 to 393.15) K at Pressures up to 25 MPa:	https://www.doi.org/10.1021/je049893r
Excess Molar Volume and Viscosity Deviation for the Binary Mixture of Diethylene Glycol Monobutyl Ether + Water from (293.15 to 333.15) K at Atmospheric Pressure:	https://www.doi.org/10.1021/je800684x
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

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

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