

Dibutyl adipate

Other names:	1,4-Butanedicarboxylic acid, di-n-butylester 3 PS 3PS Adimoll DB Cetiol B DBA DBA(dibutyl adipate) Dibutyl adipinate Dibutylester kyseliny adipove Hexanedioic acid, 1,6-dibutyl ester NSC 8086 adipic acid di-n-butyl ester adipic acid, dibutyl ester butyl adipate di-n-butyl adipate dibutyl hexanedioate experimental tick repellent 3 experimental tick repellent 3PS hexanedioic acid dibutyl ester hexanedioic acid, dibutyl ester polycizer W 260
Inchi:	InChI=1S/C14H26O4/c1-3-5-11-17-13(15)9-7-8-10-14(16)18-12-6-4-2/h3-12H2,1-2H3
InchiKey:	XTJFFFGAUHQWII-UHFFFAOYSA-N
Formula:	C14H26O4
SMILES:	CCCCOC(=O)CCCC(=O)OCCCC
Mol. weight [g/mol]:	258.35
CAS:	105-99-7

Physical Properties

Property code	Value	Unit	Source
gf	-400.84	kJ/mol	Joback Method
hf	-821.89	kJ/mol	Joback Method
hfus	37.59	kJ/mol	Joback Method
hvap	65.07	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.233		Crippen Method

mvol	223.000	ml/mol	McGowan Method
pc	1639.10	kPa	Joback Method
rinpol	1731.60		NIST Webbook
rinpol	1734.00		NIST Webbook
rinpol	1730.00		NIST Webbook
rinpol	1734.00		NIST Webbook
rinpol	1727.00		NIST Webbook
rinpol	1732.00		NIST Webbook
rinpol	1766.00		NIST Webbook
rinpol	1731.00		NIST Webbook
rinpol	1754.00		NIST Webbook
rinpol	1731.00		NIST Webbook
rinpol	1727.00		NIST Webbook
rinpol	1734.00		NIST Webbook
rinpol	1733.00		NIST Webbook
rinpol	1730.00		NIST Webbook
tb	578.20	K	NIST Webbook
tc	848.26	K	Joback Method
tf	391.86	K	Joback Method
vc	0.868	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	705.29	J/molxK	848.26	Joback Method
cpg	637.83	J/molxK	701.63	Joback Method
cpg	652.75	J/molxK	730.95	Joback Method
cpg	666.95	J/molxK	760.28	Joback Method
cpg	680.44	J/molxK	789.61	Joback Method
cpg	693.22	J/molxK	818.93	Joback Method
cpg	622.19	J/molxK	672.30	Joback Method
dvisc	0.0014859	Paxs	391.86	Joback Method
dvisc	0.0007810	Paxs	438.60	Joback Method
dvisc	0.0004646	Paxs	485.34	Joback Method
dvisc	0.0003028	Paxs	532.08	Joback Method
dvisc	0.0002115	Paxs	578.82	Joback Method
dvisc	0.0001558	Paxs	625.56	Joback Method
dvisc	0.0001198	Paxs	672.30	Joback Method
hvapt	68.70	kJ/mol	499.00	NIST Webbook

pvap	1.27e-03	kPa	333.30	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	1.80e-04	kPa	313.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	3.00e-04	kPa	318.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	4.80e-04	kPa	323.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	7.90e-04	kPa	328.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	0.03	kPa	373.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	0.02	kPa	368.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids

pvap	0.01	kPa	363.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	0.01	kPa	358.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	7.05e-03	kPa	353.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	4.67e-03	kPa	348.20	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	3.04e-03	kPa	343.10	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
pvap	2.02e-03	kPa	338.40	Vapor Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids
sdco	0.00	m ² /s	302.44	Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl) adipates from (293 - 339) K by a PGSE-NMR spin-echo technique

sdco	0.00	m2/s	338.47	Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl) adipates from (293 - 339) K by a PGSE-NMR spin-echo technique
sdco	0.00	m2/s	329.45	Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl) adipates from (293 - 339) K by a PGSE-NMR spin-echo technique
sdco	0.00	m2/s	293.43	Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl) adipates from (293 - 339) K by a PGSE-NMR spin-echo technique
sdco	0.00	m2/s	311.45	Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl) adipates from (293 - 339) K by a PGSE-NMR spin-echo technique
sdco	0.00	m2/s	320.46	Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl) adipates from (293 - 339) K by a PGSE-NMR spin-echo technique

Datasets

Mass density, kg/m³

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
293.15	100.00	960.6
293.15	100.00	960.6
293.15	2510.00	962.2
293.15	2510.00	962.2
293.15	4990.00	963.7
293.15	7510.00	965.3
293.15	9990.00	966.9
293.15	15010.00	969.9
293.15	20000.00	972.9
293.15	29990.00	978.6
293.15	39800.00	983.9
293.15	50020.00	989.1
293.15	68080.00	997.3
313.15	100.00	943.7
313.15	2500.00	945.4
313.15	2500.00	945.4
313.15	5020.00	947.2
313.15	7510.00	948.9
313.15	9990.00	950.5
313.15	15000.00	953.9
313.15	20000.00	957.1
313.15	30010.00	963.3
313.15	39810.00	969.0
313.15	50000.00	974.6
313.15	67990.00	983.8
333.15	100.00	926.8
333.15	2500.00	928.7
333.15	2500.00	928.7
333.15	5010.00	930.6
333.15	7520.00	932.5
333.15	10010.00	934.3
333.15	15040.00	938.0
333.15	20000.00	941.4
333.15	30030.00	948.2
333.15	39800.00	954.3
333.15	50030.00	960.4
333.15	68030.00	970.2
353.15	100.00	909.9
353.15	2510.00	912.0
353.15	2510.00	912.0
353.15	5000.00	914.1
353.15	7530.00	916.2
353.15	10010.00	918.2

353.15	15000.00	922.2
353.15	20000.00	926.0
353.15	30010.00	933.3
353.15	39840.00	939.9
353.15	49990.00	946.4
353.15	67990.00	956.9
373.15	100.00	893.0
373.15	2490.00	895.3
373.15	2500.00	895.3
373.15	5020.00	897.6
373.15	7510.00	899.9
373.15	10010.00	902.1
373.15	15010.00	906.5
373.15	19980.00	910.6
373.15	30010.00	918.5
373.15	39810.00	925.7
373.15	50000.00	932.6
373.15	68010.00	943.8
293.15	100.00	960.6
293.15	10000.00	966.9
293.15	5000.00	963.7
293.15	20000.00	972.9
293.15	39860.00	983.8
293.15	68090.00	997.7

Reference

<https://www.doi.org/10.1016/j.fluid.2014.04.018>

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
283.16	100.00	0.0073832
283.16	1000.00	0.0074927
283.17	5000.00	0.0078962
283.17	10000.00	0.0084066
283.15	15000.00	0.0089612
283.16	20000.00	0.0095076
283.15	30000.00	0.0106209
283.15	40000.00	0.0119521
293.15	100.00	0.0054994
293.14	1000.00	0.0055658
293.15	5000.00	0.0058404

293.15	10000.00	0.0061958
293.14	15000.00	0.0065851
293.15	20000.00	0.0069820
293.15	30000.00	0.0078076
293.14	40000.00	0.0087238
303.15	100.00	0.0042371
303.16	1000.00	0.0042877
303.15	5000.00	0.0044903
303.15	10000.00	0.0047591
303.15	15000.00	0.0050291
303.15	20000.00	0.0053228
303.15	30000.00	0.0059327
303.15	40000.00	0.0065919
313.15	100.00	0.0033753
313.15	1000.00	0.0034110
313.15	5000.00	0.0035660
313.15	10000.00	0.0037688
313.15	15000.00	0.0039786
313.15	20000.00	0.0041975
313.15	30000.00	0.0046601
313.15	40000.00	0.0051531
323.16	100.00	0.0027460
323.15	1000.00	0.0027744
323.15	5000.00	0.0029004
323.15	10000.00	0.0030614
323.15	15000.00	0.0032245
323.15	20000.00	0.0033934
323.15	30000.00	0.0037536
323.15	40000.00	0.0041457
333.15	100.00	0.0022825
333.15	1000.00	0.0023040
333.15	5000.00	0.0024072
333.14	10000.00	0.0025400
333.16	15000.00	0.0026750
333.15	20000.00	0.0028136
333.15	30000.00	0.0031061
333.15	40000.00	0.0034117
343.15	100.00	0.0019305
343.15	1000.00	0.0019503
343.15	5000.00	0.0020352
343.15	10000.00	0.0021443
343.15	15000.00	0.0022573
343.15	20000.00	0.0023697
343.15	30000.00	0.0026124

343.15	40000.00	0.0028587
353.15	100.00	0.0016548
353.15	1000.00	0.0016717
353.15	5000.00	0.0017458
353.15	10000.00	0.0018390
353.15	15000.00	0.0019335
353.15	20000.00	0.0020312
353.15	30000.00	0.0022303
353.15	40000.00	0.0024379
363.15	100.00	0.0014371
363.15	1000.00	0.0014515
363.17	5000.00	0.0015131
363.16	10000.00	0.0015944
363.15	15000.00	0.0016747
363.15	20000.00	0.0017567
363.15	30000.00	0.0019301
363.15	40000.00	0.0021078

Reference

<https://www.doi.org/10.1007/s10765-019-2573-6>

Temperature, K	Pressure, kPa	Viscosity, Pa*s
303.15	1220.00	0.0042050
303.14	1250.00	0.0042010
303.15	1280.00	0.0042080
303.15	1300.00	0.0042110
303.14	1280.00	0.0042100
303.15	1290.00	0.0042100
303.14	2750.00	0.0043050
303.15	2770.00	0.0043120
303.14	2770.00	0.0043120
303.14	2760.00	0.0043130
303.15	5420.00	0.0044150
303.14	5400.00	0.0044170
303.14	5420.00	0.0044170
303.15	5420.00	0.0044190
303.14	5420.00	0.0044190
303.14	5420.00	0.0044130
303.15	7680.00	0.0045310
303.14	7660.00	0.0045320
303.15	7660.00	0.0045310
303.15	7680.00	0.0045330
303.15	7660.00	0.0045370
303.15	7680.00	0.0045370

303.14	7570.00	0.0045130
303.14	7530.00	0.0045110
303.15	7730.00	0.0045180
303.14	10500.00	0.0046800
303.14	10520.00	0.0046860
303.14	10570.00	0.0046830
303.15	10560.00	0.0046890
303.15	15390.00	0.0049550
303.15	15380.00	0.0049540
303.15	15390.00	0.0049630
303.15	15390.00	0.0049510
303.14	20260.00	0.0052510
303.14	20300.00	0.0052500
303.14	20320.00	0.0052490
303.15	30380.00	0.0058270
303.15	30330.00	0.0058170
303.15	30290.00	0.0058270
303.15	30250.00	0.0058280
303.15	30180.00	0.0058210
303.15	30100.00	0.0058390
303.15	40150.00	0.0064460
303.15	40100.00	0.0064430
303.15	40060.00	0.0064430
303.15	39970.00	0.0064520
303.15	49880.00	0.0070580
303.15	49830.00	0.0070700
303.15	49810.00	0.0070730
303.15	49790.00	0.0070730
303.14	65590.00	0.0083120
303.15	65490.00	0.0082770
303.15	65340.00	0.0082830
313.14	1160.00	0.0033690
313.14	1110.00	0.0033710
313.14	1090.00	0.0033640
313.14	1070.00	0.0033620
313.14	2610.00	0.0034160
313.14	2590.00	0.0034120
313.14	2580.00	0.0034160
313.14	2590.00	0.0034120
313.14	2590.00	0.0034140
313.14	2600.00	0.0034150
313.15	5350.00	0.0035340
313.15	5340.00	0.0035290
313.15	5310.00	0.0035310

313.15	5320.00	0.0035310
313.15	5380.00	0.0035320
313.15	5370.00	0.0035310
313.15	5050.00	0.0035220
313.14	5050.00	0.0035180
313.15	5050.00	0.0035160
313.14	5060.00	0.0035180
313.15	7570.00	0.0035900
313.14	7630.00	0.0035950
313.15	7610.00	0.0035980
313.15	7580.00	0.0035950
313.15	10500.00	0.0037140
313.14	10470.00	0.0037130
313.15	10470.00	0.0037120
313.15	10450.00	0.0037170
313.14	15210.00	0.0038880
313.15	15160.00	0.0038870
313.15	15180.00	0.0038910
313.15	15160.00	0.0038890
313.14	15150.00	0.0038900
313.14	15150.00	0.0038890
313.14	20440.00	0.0041230
313.14	20300.00	0.0041230
313.14	20430.00	0.0041200
313.15	20420.00	0.0041220
313.14	30180.00	0.0045560
313.14	30160.00	0.0045530
313.15	30200.00	0.0045550
313.14	30190.00	0.0045560
313.14	30180.00	0.0045540
313.15	30150.00	0.0045600
313.14	40330.00	0.0050280
313.14	40290.00	0.0050300
313.14	40270.00	0.0050220
313.14	40210.00	0.0050260
313.14	50610.00	0.0055950
313.14	50580.00	0.0055960
313.14	50590.00	0.0055980
313.14	50640.00	0.0055910
313.14	50610.00	0.0055960
313.14	50610.00	0.0055910
313.14	65110.00	0.0063650
313.14	65090.00	0.0063580
323.14	1140.00	0.0027270

323.15	1130.00	0.0027280
323.15	1130.00	0.0027220
323.14	1140.00	0.0027230
323.15	2650.00	0.0027760
323.15	2650.00	0.0027750
323.15	2640.00	0.0027780
323.15	2630.00	0.0027750
323.15	5100.00	0.0028630
323.15	5070.00	0.0028600
323.14	5040.00	0.0028560
323.15	5040.00	0.0028560
323.15	5170.00	0.0028460
323.15	5180.00	0.0028410
323.16	5190.00	0.0028490
323.15	5190.00	0.0028430
323.15	7760.00	0.0029260
323.15	7760.00	0.0029310
323.15	7740.00	0.0029260
323.15	7750.00	0.0029240
323.15	7740.00	0.0029310
323.14	10170.00	0.0030180
323.15	10140.00	0.0030200
323.15	10150.00	0.0030200
323.15	10130.00	0.0030180
323.15	10150.00	0.0030160
323.15	15230.00	0.0031750
323.15	15220.00	0.0031720
323.15	15230.00	0.0031710
323.15	15220.00	0.0031730
323.15	15220.00	0.0031740
323.15	20270.00	0.0033340
323.15	20250.00	0.0033300
323.15	20230.00	0.0033270
323.15	20230.00	0.0033350
323.15	20200.00	0.0033310
323.14	30230.00	0.0036940
323.14	30230.00	0.0036930
323.14	30230.00	0.0036930
323.15	30220.00	0.0036890
323.15	30190.00	0.0036930
323.14	40050.00	0.0040790
323.15	40130.00	0.0040730
323.15	40140.00	0.0040770
323.14	39990.00	0.0040800

323.15	50050.00	0.0044500
323.15	50060.00	0.0044570
323.15	50030.00	0.0044560
323.16	65310.00	0.0051190
323.16	65230.00	0.0051250
323.16	65190.00	0.0051230
323.16	65110.00	0.0051260
333.15	1000.00	0.0022700
333.15	1170.00	0.0022690
333.15	1020.00	0.0022700
333.15	1200.00	0.0022680
333.15	2530.00	0.0022960
333.16	2490.00	0.0022980
333.16	2580.00	0.0022990
333.15	5100.00	0.0023610
333.15	5090.00	0.0023660
333.15	5100.00	0.0023620
333.15	5030.00	0.0023670
333.15	5050.00	0.0023620
333.15	5070.00	0.0023650
333.15	5220.00	0.0023660
333.16	5220.00	0.0023610
333.15	5210.00	0.0023610
333.15	5210.00	0.0023650
333.16	7780.00	0.0024220
333.15	7800.00	0.0024210
333.15	7790.00	0.0024200
333.15	7790.00	0.0024210
333.15	10160.00	0.0024930
333.15	10100.00	0.0024930
333.15	10120.00	0.0024950
333.15	10130.00	0.0024950
333.15	15260.00	0.0026250
333.15	15240.00	0.0026190
333.15	15150.00	0.0026200
333.15	14860.00	0.0026210
333.15	20250.00	0.0027630
333.15	20290.00	0.0027600
333.15	20260.00	0.0027600
333.15	20270.00	0.0027610
333.15	30130.00	0.0030500
333.15	30230.00	0.0030470
333.15	29840.00	0.0030500
333.15	29880.00	0.0030430

333.15	30150.00	0.0030420
333.15	40080.00	0.0033350
333.15	40070.00	0.0033300
333.15	39970.00	0.0033310
333.15	40020.00	0.0033320
333.15	50000.00	0.0036380
333.15	50000.00	0.0036360
333.15	50000.00	0.0036320
333.15	49990.00	0.0036440
333.15	61660.00	0.0040570
333.15	61480.00	0.0040640
333.15	61600.00	0.0040550
333.15	61450.00	0.0040650
343.15	1260.00	0.0019180
343.15	1100.00	0.0019170
343.15	1100.00	0.0019160
343.15	1170.00	0.0019150
343.15	1240.00	0.0019140
343.15	1260.00	0.0019150
343.15	2580.00	0.0019460
343.15	2500.00	0.0019450
343.15	2500.00	0.0019470
343.15	2530.00	0.0019500
343.15	2520.00	0.0019480
343.15	2480.00	0.0019490
343.15	4960.00	0.0019930
343.15	4970.00	0.0019940
343.15	4980.00	0.0019920
343.15	4990.00	0.0019890
343.15	7500.00	0.0020540
343.15	7520.00	0.0020560
343.15	7510.00	0.0020570
343.15	7510.00	0.0020590
343.15	10030.00	0.0021180
343.15	10090.00	0.0021170
343.15	10040.00	0.0021170
343.15	10040.00	0.0021190
343.15	15260.00	0.0022210
343.15	15240.00	0.0022220
343.15	15220.00	0.0022240
343.15	20270.00	0.0023310
343.15	20210.00	0.0023350
343.15	20280.00	0.0023350
343.15	20240.00	0.0023320

343.14	20120.00	0.0023350
343.14	20120.00	0.0023320
343.15	20040.00	0.0023340
343.15	20160.00	0.0023370
343.15	30130.00	0.0025610
343.15	30090.00	0.0025620
343.15	30150.00	0.0025610
343.15	30160.00	0.0025660
343.15	30150.00	0.0025640
343.15	30140.00	0.0025660
343.15	39830.00	0.0028060
343.14	39830.00	0.0028030
343.14	39860.00	0.0028070
343.14	39870.00	0.0028040
343.14	39840.00	0.0028090
343.14	39880.00	0.0028100
343.15	50080.00	0.0030800
343.15	50080.00	0.0030830
343.15	65620.00	0.0034900
343.15	65610.00	0.0034820
343.14	65480.00	0.0034890
343.14	65500.00	0.0034840
358.16	1080.00	0.0015210
358.16	1090.00	0.0015240
358.16	1090.00	0.0015230
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358.16	1090.00	0.0015210
358.15	2510.00	0.0015590
358.16	2540.00	0.0015580
358.16	2540.00	0.0015580
358.16	2510.00	0.0015590
358.15	2520.00	0.0015590
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358.15	5240.00	0.0016010
358.16	5240.00	0.0015990
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358.16	5200.00	0.0015970
358.15	5050.00	0.0015940
358.15	5050.00	0.0015930
358.15	5060.00	0.0015940
358.15	5060.00	0.0015950
358.16	7560.00	0.0016450
358.16	7560.00	0.0016440
358.16	7560.00	0.0016450

358.16	7560.00	0.0016440
358.16	7560.00	0.0016430
358.15	9930.00	0.0016880
358.15	10010.00	0.0016900
358.15	15060.00	0.0017690
358.15	15060.00	0.0017660
358.15	15060.00	0.0017640
358.15	15130.00	0.0017650
358.15	15100.00	0.0017680
358.15	20130.00	0.0018630
358.16	20130.00	0.0018680
358.16	20120.00	0.0018680
358.16	20120.00	0.0018660
358.16	20160.00	0.0018630
358.15	30290.00	0.0020420
358.15	30320.00	0.0020460
358.15	30290.00	0.0020440
358.15	30310.00	0.0020430
358.15	30300.00	0.0020410
358.15	30280.00	0.0020450
358.16	40080.00	0.0022230
358.15	39990.00	0.0022190
358.15	40010.00	0.0022190
358.15	40060.00	0.0022190
358.15	40040.00	0.0022220
358.15	39960.00	0.0022230
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358.16	50170.00	0.0024270
358.16	50160.00	0.0024290
358.16	50170.00	0.0024270
358.16	65550.00	0.0027610
358.16	65550.00	0.0027610
358.16	65550.00	0.0027570
358.16	65550.00	0.0027580
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373.15	1060.00	0.0012530
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373.15	2600.00	0.0012640
373.15	2590.00	0.0012640
373.15	5080.00	0.0013020
373.15	5080.00	0.0013010

373.15	5080.00	0.0013030
373.15	5080.00	0.0013030
373.15	7610.00	0.0013410
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373.15	7600.00	0.0013420
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373.15	20230.00	0.0015180
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373.15	50030.00	0.0019770
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373.15	50030.00	0.0019740
373.15	65350.00	0.0022310
373.15	65350.00	0.0022310
373.15	65350.00	0.0022290

Reference

<https://www.doi.org/10.1016/j.fluid.2015.03.016>

Sources

- Density measurements of compressed dipropyl, dibutyl, bis(2-ethylhexyl) adipate. Measurements of Dialkyl Adipates in the Temperature Range of (200 to 300) K and up to 40 MPa: <https://www.doi.org/10.1016/j.fluid.2014.04.018>
- Viscosity measurements of compressed liquid dipropyl and dibutyl adipates. Pressures and Enthalpies of Vaporization of a Series of the Symmetric Linear n-Alkyl Esters of Dicarboxylic Acids: <https://www.doi.org/10.1007/s10765-019-2573-6>
- <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
- <https://www.doi.org/10.1016/j.fluid.2015.03.016>
- <https://www.doi.org/10.1021/je100231g>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C105997&Units=SI>
Self-diffusivity measurements of dimethyl, diethyl, dipropyl, dibutyl, Bis(2-ethylhexyl)adipates from (293 - 339) K by a PGSE-NMR spin-echo Joback Method: <https://www.doi.org/10.1016/j.fluid.2015.11.020>
<http://link.springer.com/article/10.1007/BF02311772>
https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas 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
rho: Liquid Density
rinpola: Non-polar retention indices
sdco: Self diffusion coefficient
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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