

Carbonic acid, di(2-ethylhexyl) ester

Other names:	bis(2-ethylhexyl) carbonate
Inchi:	InChI=1S/C17H34O3/c1-5-9-11-15(7-3)13-19-17(18)20-14-16(8-4)12-10-6-2/h15-16H,5-17H
InchiKey:	PXTQQOLKZBLYDY-UHFFFAOYSA-N
Formula:	C17H34O3
SMILES:	CCCCC(CC)COC(=O)OCC(CC)CCCC
Mol. weight [g/mol]:	286.46

Physical Properties

Property code	Value	Unit	Source
af	0.8145		Cheméo Relay (1.0)
hf	-900.07	kJ/mol	Cheméo Relay (1.0)
hfus	36.71	kJ/mol	Joback Method
hvap	89.12	kJ/mol	Cheméo Relay (1.0)
log10ws	-5.51		Cheméo Relay (1.0)
logp	5.572		Crippen Method
mcvol	263.700	ml/mol	McGowan Method
pc	1270.97	kPa	Joback Method
tb	579.94	K	Cheméo Relay (1.0)
tc	716.47	K	Cheméo Relay (1.0)
tf	192.72	K	Cheméo Relay (1.0)
vc	0.981	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.61	J/mol×K	686.19	Joback Method
cpg	783.21	J/mol×K	714.92	Joback Method
cpg	800.96	J/mol×K	743.66	Joback Method
cpg	817.88	J/mol×K	772.39	Joback Method
cpg	833.97	J/mol×K	801.13	Joback Method
cpg	849.24	J/mol×K	829.86	Joback Method
cpg	863.71	J/mol×K	858.60	Joback Method
dvisc	0.0024947	Pa×s	345.74	Joback Method
dvisc	0.0009085	Pa×s	402.48	Joback Method

dvisc	0.0004247	Pa×s	459.22	Joback Method
dvisc	0.0002347	Pa×s	515.96	Joback Method
dvisc	0.0001458	Pa×s	572.71	Joback Method
dvisc	0.0000987	Pa×s	629.45	Joback Method
dvisc	0.0000713	Pa×s	686.19	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C14858732&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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