BIS(2-CHLOROETHYL) CARBONATE

Inchi: InChI=1S/C5H8Cl2O3/c6-1-3-9-5(8)10-4-2-7/h1-4H2
InchiKey: WQULVXNWEYLDJY-UHFFFAOYSA-N
Formula: C5H8Cl2O3
SMILES: O=C(OCCCl)OCCCl
Mol. weight [g/mol]: 187.02

Physical Properties

Property code	Value	Unit	Source
hf	-666.15	kJ/mol	Cheméo Relay (1.0)
hfus	21.07	kJ/mol	Joback Method
hvap	63.52	kJ/mol	Cheméo Relay (1.0)
logp	1.617		Crippen Method
mcvol	119.100	ml/mol	McGowan Method
tb	495.80	K	Cheméo Relay (1.0)
tc	652.64	K	Cheméo Relay (1.0)
tf	273.41	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.68	J/mol×K	487.37	Joback Method
cpg	237.65	J/mol×K	519.27	Joback Method
cpg	245.34	J/mol×K	551.17	Joback Method
cpg	252.77	J/mol×K	583.07	Joback Method
cpg	259.90	J/mol×K	614.97	Joback Method
cpg	266.75	J/mol×K	646.87	Joback Method
cpg	273.29	J/mol×K	678.77	Joback Method
dvisc	0.0021505	Pa×s	300.34	Joback Method
dvisc	0.0012974	Pa×s	331.51	Joback Method
dvisc	0.0008537	Pa×s	362.68	Joback Method
dvisc	0.0006002	Pa×s	393.86	Joback Method
dvisc	0.0004444	Pa×s	425.03	Joback Method
dvisc	0.0003428	Pa×s	456.20	Joback Method
dvisc	0.0002734	Pa×s	487.37	Joback Method

Sources

Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?Str2File=C623972
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

Legend

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
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point