1,2-Cyclohexanedicarboxylic acid, di(2-methoxyethyl) ester

Inchi: InChI=1S/C14H24O6/c1-17-7-9-19-13(15)11-5-3-4-6-12(11)14(16)20-10-8-18-2/h11-12H

InchiKey: CGWHCRMJEMRSKU-UHFFFAOYSA-N

Formula: C14H24O6

SMILES: COCCOC(=O)C1CCCCC1C(=O)OCCOC

Mol. weight [g/mol]: 288.34

Physical Properties

Property code	Value	Unit	Source
gf	-594.10	kJ/mol	Joback Method
hf	-1052.35	kJ/mol	Joback Method
hfus	32.87	kJ/mol	Joback Method
hvap	70.01	kJ/mol	Joback Method
log10ws	-0.99		Crippen Method
logp	1.172		Crippen Method
mcvol	223.880	ml/mol	McGowan Method
pc	1838.84	kPa	Joback Method
rinpol	1976.00		NIST Webbook
rinpol	1976.00		NIST Webbook
tb	732.02	K	Joback Method
tc	929.51	K	Joback Method
tf	439.46	K	Joback Method
vc	0.836	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	677.02	J/mol×K	732.02	Joback Method
cpg	694.45	J/mol×K	764.94	Joback Method
cpg	710.77	J/mol×K	797.85	Joback Method
cpg	725.96	J/mol×K	830.77	Joback Method
cpg	740.00	J/mol×K	863.68	Joback Method
cpg	752.86	J/mol×K	896.60	Joback Method
cpg	764.52	J/mol×K	929.51	Joback Method
dvisc	0.0008683	Pa×s	439.46	Joback Method

dvisc	0.0004935	Pa×s	488.22	Joback Method
dvisc	0.0003108	Pa×s	536.98	Joback Method
dvisc	0.0002114	Pa×s	585.74	Joback Method
dvisc	0.0001526	Pa×s	634.50	Joback Method
dvisc	0.0001154	Pa×s	683.26	Joback Method
dvisc	0.0000905	Pa×s	732.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U340039&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume