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

Inchi: InChI=1S/C16H28O6/c1-3-19-9-11-21-15(17)13-7-5-6-8-14(13)16(18)22-12-10-20-4-2/h1

InchiKey: CULNYDOUIUVMMT-UHFFFAOYSA-N

Formula: C16H28O6

SMILES: CCOCCOC(=O)C1CCCCC1C(=O)OCCOCC

Mol. weight [g/mol]: 316.39

Physical Properties

Property code	Value	Unit	Source
gf	-577.26	kJ/mol	Joback Method
hf	-1093.63	kJ/mol	Joback Method
hfus	38.05	kJ/mol	Joback Method
hvap	74.46	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.952		Crippen Method
mcvol	252.060	ml/mol	McGowan Method
pc	1569.72	kPa	Joback Method
rinpol	2089.00		NIST Webbook
rinpol	2089.00		NIST Webbook
tb	777.78	K	Joback Method
tc	973.40	K	Joback Method
tf	462.00	K	Joback Method
vc	0.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.30	J/mol×K	777.78	Joback Method
cpg	868.69	J/mol×K	940.79	Joback Method
cpg	855.93	J/mol×K	908.19	Joback Method
cpg	841.89	J/mol×K	875.59	Joback Method
cpg	826.60	J/mol×K	842.99	Joback Method
cpg	810.06	J/mol×K	810.38	Joback Method
cpg	880.16	J/mol×K	973.40	Joback Method
dvisc	0.0000696	Pa×s	777.78	Joback Method

dvisc	0.0000893	Pa×s	725.15	Joback Method
dvisc	0.0001192	Pa×s	672.52	Joback Method
dvisc	0.0001671	Pa×s	619.89	Joback Method
dvisc	0.0002494	Pa×s	567.26	Joback Method
dvisc	0.0004039	Pa×s	514.63	Joback Method
dvisc	0.0007300	Pa×s	462.00	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U339920&Units=SI
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
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