Propanoic acid, 2,3-diethoxy-3-phenyl, ethyl ester, erythro

Inchi: InChI=1S/C15H22O4/c1-4-17-13(12-10-8-7-9-11-12)14(18-5-2)15(16)19-6-3/h7-11,13-14
InchiKey: DNGYVICCFFRGKH-KBPBESRZSA-N
Formula: C15H22O4
SMILES: CCOC(=O)C(OCC)C(OCC)c1ccccc1
Mol. weight [g/mol]: 266.33

Physical Properties

Property code	Value	Unit	Source
gf	-260.97	kJ/mol	Joback Method
hf	-636.20	kJ/mol	Joback Method
hfus	26.76	kJ/mol	Joback Method
hvap	64.46	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.732		Crippen Method
mcvol	217.630	ml/mol	McGowan Method
pc	1892.00	kPa	Joback Method
rinpol	1573.00		NIST Webbook
rinpol	1573.00		NIST Webbook
tb	689.53	K	Joback Method
tc	890.91	K	Joback Method
tf	371.85	K	Joback Method
vc	0.816	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	603.48	J/mol×K	689.53	Joback Method
cpg	676.93	J/mol×K	857.35	Joback Method
cpg	664.20	J/mol×K	823.79	Joback Method
cpg	650.49	J/mol×K	790.22	Joback Method
cpg	635.81	J/mol×K	756.66	Joback Method
cpg	620.14	J/mol×K	723.09	Joback Method
cpg	688.69	J/mol×K	890.91	Joback Method
dvisc	0.0000706	Pa×s	689.53	Joback Method

dvisc	0.0000948	Pa×s	636.58	Joback Method
dvisc	0.0001343	Pa×s	583.64	Joback Method
dvisc	0.0002040	Pa×s	530.69	Joback Method
dvisc	0.0003399	Pa×s	477.74	Joback Method
dvisc	0.0006432	Pa×s	424.80	Joback Method
dvisc	0.0014594	Pa×s	371.85	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=R329505&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