Fumaric acid, 4-phenylphenyl propyl ester

Inchi: InChI=1S/C19H18O4/c1-2-14-22-18(20)12-13-19(21)23-17-10-8-16(9-11-17)15-6-4-3-5-7
InchiKey: IVXJXGMTLBQHPP-OUKQBFOZSA-N
Formula: C19H18O4
SMILES: CCCOC(=O)C=CC(=O)Oc1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]: 310.34

Physical Properties

Property code	Value	Unit	Source
gf	-63.33	kJ/mol	Joback Method
hf	-346.28	kJ/mol	Joback Method
hfus	38.43	kJ/mol	Joback Method
hvap	81.37	kJ/mol	Joback Method
log10ws	-5.20		Crippen Method
logp	3.768		Crippen Method
mcvol	241.630	ml/mol	McGowan Method
pc	1973.55	kPa	Joback Method
rinpol	2615.00		NIST Webbook
rinpol	2615.00		NIST Webbook
tb	849.20	K	Joback Method
tc	1081.86	K	Joback Method
tf	508.49	K	Joback Method
vc	0.911	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	697.45	J/mol×K	849.20	Joback Method
cpg	754.15	J/mol×K	1043.08	Joback Method
cpg	745.00	J/mol×K	1004.31	Joback Method
cpg	734.81	J/mol×K	965.53	Joback Method
cpg	723.53	J/mol×K	926.75	Joback Method
cpg	711.09	J/mol×K	887.98	Joback Method
cpg	762.32	J/mol×K	1081.86	Joback Method
dvisc	0.0000560	Pa×s	849.20	Joback Method

dvisc	0.0000712	Pa×s	792.41	Joback Method
dvisc	0.0000937	Pa×s	735.63	Joback Method
dvisc	0.0001293	Pa×s	678.85	Joback Method
dvisc	0.0001891	Pa×s	622.06	Joback Method
dvisc	0.0002985	Pa×s	565.27	Joback Method
dvisc	0.0005219	Pa×s	508.49	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=U348207&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