Fumaric acid, di(2-methoxyphenyl) ester

Inchi: InChI=1S/C18H16O6/c1-21-13-7-3-5-9-15(13)23-17(19)11-12-18(20)24-16-10-6-4-8-14(1
InchiKey: PPVUVHOLUCZOCO-VAWYXSNFSA-N
Formula: C18H16O6
SMILES: COc1ccccc1OC(=O)C=CC(=O)Oc1ccccc1OC
Mol. weight [g/mol]: 328.32

Physical Properties

Property code	Value	Unit	Source
gf	-291.38	kJ/mol	Joback Method
hf	-601.55	kJ/mol	Joback Method
hfus	37.83	kJ/mol	Joback Method
hvap	84.63	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	2.771		Crippen Method
mcvol	239.280	ml/mol	McGowan Method
pc	2058.62	kPa	Joback Method
rinpol	2605.00		NIST Webbook
rinpol	2605.00		NIST Webbook
tb	876.14	K	Joback Method
tc	1108.48	K	Joback Method
tf	554.20	K	Joback Method
vc	0.891	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	692.34	J/mol×K	876.14	Joback Method
cpg	739.41	J/mol×K	1069.75	Joback Method
cpg	732.66	J/mol×K	1031.03	Joback Method
cpg	724.58	J/mol×K	992.31	Joback Method
cpg	715.17	J/mol×K	953.59	Joback Method
cpg	704.43	J/mol×K	914.86	Joback Method
cpg	744.85	J/mol×K	1108.48	Joback Method
dvisc	0.0000371	Pa×s	876.14	Joback Method

dvisc	0.0000461	Pa×s	822.48	Joback Method
dvisc	0.0000592	Pa×s	768.83	Joback Method
dvisc	0.0000787	Pa×s	715.17	Joback Method
dvisc	0.0001097	Pa×s	661.51	Joback Method
dvisc	0.0001621	Pa×s	607.86	Joback Method
dvisc	0.0002583	Pa×s	554.20	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U405944&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