1,2-Cyclohexanedicarboxylic acid, di(4-methoxyphenyl) ester

Inchi: InChI=1S/C22H24O6/c1-25-15-7-11-17(12-8-15)27-21(23)19-5-3-4-6-20(19)22(24)28-18
InchiKey: OLTMPDUMUWOPJJ-UHFFFAOYSA-N
Formula: C22H24O6
SMILES: COc1ccc(OC(=O)C2CCCCC2C(=O)Oc2ccc(OC)cc2)cc1
Mol. weight [g/mol]: 384.42

Physical Properties

Property code	Value	Unit	Source
gf	-321.18	kJ/mol	Joback Method
hf	-767.35	kJ/mol	Joback Method
hfus	40.90	kJ/mol	Joback Method
hvap	93.69	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.021		Crippen Method
mcvol	289.080	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	3185.00		NIST Webbook
rinpol	3185.00		NIST Webbook
tb	978.38	K	Joback Method
tc	1220.75	K	Joback Method
tf	607.50	K	Joback Method
vc	1.067	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.16	J/mol×K	978.38	Joback Method
cpg	960.38	J/mol×K	1018.78	Joback Method
cpg	970.45	J/mol×K	1059.17	Joback Method
cpg	978.37	J/mol×K	1099.57	Joback Method
cpg	984.14	J/mol×K	1139.96	Joback Method
cpg	987.76	J/mol×K	1180.36	Joback Method
cpg	989.22	J/mol×K	1220.75	Joback Method
dvisc	0.0002444	Pa×s	607.50	Joback Method

dvisc	0.0001502	Pa×s	669.31	Joback Method
dvisc	0.0001002	Pa×s	731.13	Joback Method
dvisc	0.0000712	Pa×s	792.94	Joback Method
dvisc	0.0000532	Pa×s	854.75	Joback Method
dvisc	0.0000413	Pa×s	916.57	Joback Method
dvisc	0.0000331	Pa×s	978.38	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=U339677&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

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