

Fumaric acid, 2-methoxyphenyl 3-chlorophenyl ester

Inchi:	InChI=1S/C17H13ClO5/c1-21-14-7-2-3-8-15(14)23-17(20)10-9-16(19)22-13-6-4-5-12(18)
InchiKey:	QHDKTLRSSROPPF-MDZDMLPSA-N
Formula:	C17H13ClO5
SMILES:	COc1ccccc1OC(=O)C=CC(=O)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	332.74

Physical Properties

Property code	Value	Unit	Source
gf	-206.73	kJ/mol	Joback Method
hf	-464.43	kJ/mol	Joback Method
hfus	38.25	kJ/mol	Joback Method
hvap	84.38	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.416		Crippen Method
mcvol	231.560	ml/mol	McGowan Method
pc	2208.29	kPa	Joback Method
rinpol	2524.00		NIST Webbook
rinpol	2524.00		NIST Webbook
tb	868.27	K	Joback Method
tc	1108.40	K	Joback Method
tf	550.62	K	Joback Method
vc	0.867	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.22	J/molxK	868.27	Joback Method
cpg	676.16	J/molxK	1068.38	Joback Method
cpg	669.73	J/molxK	1028.36	Joback Method
cpg	662.14	J/molxK	988.34	Joback Method
cpg	653.38	J/molxK	948.31	Joback Method
cpg	643.41	J/molxK	908.29	Joback Method
cpg	681.48	J/molxK	1108.40	Joback Method
dvisc	0.0000492	Paxs	868.27	Joback Method

dvisc	0.0000611	Paxs	815.33	Joback Method
dvisc	0.0000781	Paxs	762.39	Joback Method
dvisc	0.0001035	Paxs	709.44	Joback Method
dvisc	0.0001436	Paxs	656.50	Joback Method
dvisc	0.0002111	Paxs	603.56	Joback Method
dvisc	0.0003341	Paxs	550.62	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405937&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
mccvol:	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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