

Dimethylmalonic acid, monochloride, 4-(4-methoxyphenyl)cyclohexyl ester

Inchi:	InChI=1S/C18H23ClO4/c1-18(2,16(19)20)17(21)23-15-10-6-13(7-11-15)12-4-8-14(22-3)9
InchiKey:	BGQWDRVFTCSLSY-UHFFFAOYSA-N
Formula:	C18H23ClO4
SMILES:	COc1ccc(C2CCC(OC(=O)C(C)(C)C(=O)Cl)CC2)cc1
Mol. weight [g/mol]:	338.83

Physical Properties

Property code	Value	Unit	Source
gf	-256.73	kJ/mol	Joback Method
hf	-669.90	kJ/mol	Joback Method
hfus	31.29	kJ/mol	Joback Method
hvap	80.12	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.056		Crippen Method
mvol	256.980	ml/mol	McGowan Method
pc	1759.49	kPa	Joback Method
rinpol	2576.00		NIST Webbook
rinpol	2576.00		NIST Webbook
tb	844.56	K	Joback Method
tc	1080.54	K	Joback Method
tf	511.36	K	Joback Method
vc	0.954	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	787.67	J/molxK	844.56	Joback Method
cpg	853.67	J/molxK	1041.21	Joback Method
cpg	843.43	J/molxK	1001.88	Joback Method
cpg	831.77	J/molxK	962.55	Joback Method
cpg	818.62	J/molxK	923.22	Joback Method
cpg	803.94	J/molxK	883.89	Joback Method
cpg	862.53	J/molxK	1080.54	Joback Method
dvisc	0.0000664	Paxs	844.56	Joback Method

dvisc	0.0000854	Paxs	789.03	Joback Method
dvisc	0.0001140	Paxs	733.49	Joback Method
dvisc	0.0001596	Paxs	677.96	Joback Method
dvisc	0.0002372	Paxs	622.43	Joback Method
dvisc	0.0003811	Paxs	566.89	Joback Method
dvisc	0.0006787	Paxs	511.36	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=U363925&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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