

1,2-Cyclohexanedicarboxylic acid, ethyl 4-methoxyphenyl ester

Inchi:	InChI=1S/C17H22O5/c1-3-21-16(18)14-6-4-5-7-15(14)17(19)22-13-10-8-12(20-2)9-11-13
InchiKey:	LAGULUFALMQLGT-UHFFFAOYSA-N
Formula:	C17H22O5
SMILES:	CCOC(=O)C1CCCCC1C(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]:	306.35

Physical Properties

Property code	Value	Unit	Source
gf	-361.06	kJ/mol	Joback Method
hf	-756.99	kJ/mol	Joback Method
hfus	33.11	kJ/mol	Joback Method
hvap	77.22	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	2.970		Crippen Method
mcvol	236.520	ml/mol	McGowan Method
pc	1911.91	kPa	Joback Method
rinpol	2323.00		NIST Webbook
tb	809.90	K	Joback Method
tc	1034.03	K	Joback Method
tf	489.98	K	Joback Method
vc	0.877	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	730.60	J/molxK	809.90	Joback Method
cpg	747.36	J/molxK	847.26	Joback Method
cpg	762.61	J/molxK	884.61	Joback Method
cpg	776.33	J/molxK	921.97	Joback Method
cpg	788.53	J/molxK	959.32	Joback Method
cpg	799.21	J/molxK	996.68	Joback Method
cpg	808.35	J/molxK	1034.03	Joback Method
dvisc	0.0006881	Paxs	489.98	Joback Method
dvisc	0.0004064	Paxs	543.30	Joback Method

dvisc	0.0002637	Paxs	596.62	Joback Method
dvisc	0.0001837	Paxs	649.94	Joback Method
dvisc	0.0001352	Paxs	703.26	Joback Method
dvisc	0.0001039	Paxs	756.58	Joback Method
dvisc	0.0000827	Paxs	809.90	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U339666&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
mvol:	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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