3,4-Dimethoxy adipic acid, dimethyl ester

Inchi: InChI=1S/C10H18O6/c1-13-7(5-9(11)15-3)8(14-2)6-10(12)16-4/h7-8H,5-6H2,1-4H3
InchiKey: WUWLMYNLJRZTOV-UHFFFAOYSA-N
Formula: C10H18O6
SMILES: COC(=O)CC(OC)C(CC(=O)OC)OC
Mol. weight [g/mol]: 234.25

Physical Properties

Property code	Value	Unit	Source
gf	-649.40	kJ/mol	Joback Method
hf	-1014.33	kJ/mol	Joback Method
hfus	22.56	kJ/mol	Joback Method
hvap	60.21	kJ/mol	Joback Method
log10ws	-0.13		Crippen Method
logp	0.143		Crippen Method
mcvol	178.380	ml/mol	McGowan Method
pc	2258.96	kPa	Joback Method
tb	624.74	K	Joback Method
tc	809.53	K	Joback Method
tf	361.24	K	Joback Method
vc	0.667	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.07	J/mol×K	624.74	Joback Method
cpg	481.58	J/mol×K	655.54	Joback Method
cpg	494.52	J/mol×K	686.34	Joback Method
cpg	506.86	J/mol×K	717.13	Joback Method
cpg	518.58	J/mol×K	747.93	Joback Method
cpg	529.66	J/mol×K	778.73	Joback Method
cpg	540.07	J/mol×K	809.53	Joback Method
dvisc	0.0015044	Pa×s	361.24	Joback Method
dvisc	0.0007526	Pa×s	405.16	Joback Method
dvisc	0.0004311	Pa×s	449.07	Joback Method

dvisc	0.0002727	Pa×s	492.99	Joback Method
dvisc	0.0001859	Pa×s	536.91	Joback Method
dvisc	0.0001343	Pa×s	580.82	Joback Method
dvisc	0.0001016	Pa×s	624.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000978&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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