Acetic acid, 2-(3,5-dimethoxyphenyl)-, methyl ester

Other names: Methyl 3,5-dimethoxyphenylacetate
Inchi: InChI=1S/C11H14O4/c1-13-9-4-8(6-11(12)15-3)5-10(7-9)14-2/h4-5,7H,6H2,1-3H3
InchiKey: CLZWNNSTRIEAMH-UHFFFAOYSA-N
Formula: C11H14O4
SMILES: COC(=O)Cc1cc(OC)cc(OC)c1
Mol. weight [g/mol]: 210.23
CAS: 6512-32-9

Physical Properties

Property code	Value	Unit	Source
gf	-309.03	kJ/mol	Joback Method
hf	-566.02	kJ/mol	Joback Method
hfus	22.67	kJ/mol	Joback Method
hvap	57.66	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.419		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
tb	608.85	K	Joback Method
tc	815.75	K	Joback Method
tf	381.81	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.96	J/mol×K	608.85	Joback Method
cpg	408.45	J/mol×K	643.33	Joback Method
cpg	421.30	J/mol×K	677.82	Joback Method
cpg	433.48	J/mol×K	712.30	Joback Method
cpg	444.99	J/mol×K	746.78	Joback Method
cpg	455.79	J/mol×K	781.27	Joback Method
cpg	465.87	J/mol×K	815.75	Joback Method
dvisc	0.0007937	Pa×s	381.81	Joback Method

dvisc	0.0005080	Pa×s	419.65	Joback Method
dvisc	0.0003500	Pa×s	457.49	Joback Method
dvisc	0.0002553	Pa×s	495.33	Joback Method
dvisc	0.0001948	Pa×s	533.17	Joback Method
dvisc	0.0001540	Pa×s	571.01	Joback Method
dvisc	0.0001254	Pa×s	608.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6512329&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
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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume