Benzeneacetic acid, 3-methoxy-, methyl ester

Other names:	Acetic acid, (m-methoxyphenyl)-, methyl ester
	Methyl (3-methoxyphenyl)acetate
	Methyl m-methoxyphenylacetate
	Methyl 2-(m-methoxyphenyl)acetate
	Acetic acid, 3-methoxyphenoxy, methyl ester
	(3-Methoxy-phenyl)-acetic acid methyl ester
Inchi:	InChI=1S/C10H12O3/c1-12-9-5-3-4-8(6-9)7-10(11)13-2/h3-6H,7H2,1-2H3
InchiKey:	BSVIOYCZTJRBDB-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	COC(=O)Cc1cccc(OC)c1
Mol. weight [g/mol]:	180.20
CAS:	18927-05-4

Physical Properties

Property code	Value	Unit	Source
gf	-202.82	kJ/mol	Joback Method
hf	-401.69	kJ/mol	Joback Method
hfus	19.28	kJ/mol	Joback Method
hvap	52.36	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	1.411		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	1416.90		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1416.90		NIST Webbook
tb	558.57	K	Joback Method
tc	770.06	K	Joback Method
tf	335.79	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.98	J/mol×K	558.57	Joback Method
cpg	337.02	J/mol×K	593.82	Joback Method
cpg	349.42	J/mol×K	629.07	Joback Method
cpg	361.16	J/mol×K	664.31	Joback Method
cpg	372.24	J/mol×K	699.56	Joback Method
cpg	382.66	J/mol×K	734.81	Joback Method
cpg	392.43	J/mol×K	770.06	Joback Method
dvisc	0.0013400	Pa×s	335.79	Joback Method
dvisc	0.0008036	Pa×s	372.92	Joback Method
dvisc	0.0005287	Pa×s	410.05	Joback Method
dvisc	0.0003728	Pa×s	447.18	Joback Method
dvisc	0.0002774	Pa×s	484.31	Joback Method
dvisc	0.0002153	Pa×s	521.44	Joback Method
dvisc	0.0001728	Pa×s	558.57	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=C18927054&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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