

3-Hydroxymandelic acid, dimethyl ether, methyl ester

Other names:	Methyl methoxy(3-methoxyphenyl)acetate
Inchi:	InChI=1S/C11H14O4/c1-13-9-6-4-5-8(7-9)10(14-2)11(12)15-3/h4-7,10H,1-3H3
InchiKey:	PRJJVJQUMHDYMQ-UHFFFAOYSA-N
Formula:	C11H14O4
SMILES:	<chem>COC(=O)C(OC)c1cccc(OC)c1</chem>
Mol. weight [g/mol]:	210.23

Physical Properties

Property code	Value	Unit	Source
gf	-301.84	kJ/mol	Joback Method
hf	-559.83	kJ/mol	Joback Method
hfus	19.54	kJ/mol	Joback Method
hvap	56.61	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.556		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	2662.52	kPa	Joback Method
rinpol	1545.40		NIST Webbook
rinpol	1545.40		NIST Webbook
tb	603.43	K	Joback Method
tc	813.54	K	Joback Method
tf	354.29	K	Joback Method
vc	0.598	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.05	J/mol×K	603.43	Joback Method
cpg	410.07	J/mol×K	638.45	Joback Method
cpg	423.37	J/mol×K	673.47	Joback Method
cpg	435.94	J/mol×K	708.49	Joback Method
cpg	447.77	J/mol×K	743.51	Joback Method
cpg	458.83	J/mol×K	778.52	Joback Method
cpg	469.13	J/mol×K	813.54	Joback Method

dvisc	0.0011933	Paxs	354.29	Joback Method
dvisc	0.0006642	Paxs	395.81	Joback Method
dvisc	0.0004132	Paxs	437.34	Joback Method
dvisc	0.0002791	Paxs	478.86	Joback Method
dvisc	0.0002007	Paxs	520.38	Joback Method
dvisc	0.0001516	Paxs	561.91	Joback Method
dvisc	0.0001189	Paxs	603.43	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=U332760&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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