

2,2-Dimethylpropanoic acid, 4-methoxyphenyl ester

Inchi:	InChI=1S/C12H16O3/c1-12(2,3)11(13)15-10-7-5-9(14-4)6-8-10/h5-8H,1-4H3
InchiKey:	ASIMJPKPWCJCKI-UHFFFAOYSA-N
Formula:	C12H16O3
SMILES:	COc1ccc(OC(=O)C(C)(C)C)cc1
Mol. weight [g/mol]:	208.25

Physical Properties

Property code	Value	Unit	Source
gf	-183.14	kJ/mol	Joback Method
hf	-451.72	kJ/mol	Joback Method
hfus	17.05	kJ/mol	Joback Method
hvap	55.51	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.647		Crippen Method
mcvol	169.490	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
rinpol	1458.00		NIST Webbook
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tb	601.10	K	Joback Method
tc	818.07	K	Joback Method
tf	360.75	K	Joback Method
vc	0.630	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.60	J/molxK	601.10	Joback Method
cpg	490.42	J/molxK	781.91	Joback Method
cpg	478.65	J/molxK	745.74	Joback Method
cpg	466.00	J/molxK	709.58	Joback Method
cpg	452.46	J/molxK	673.42	Joback Method
cpg	438.00	J/molxK	637.26	Joback Method
cpg	501.35	J/molxK	818.07	Joback Method
dvisc	0.0001290	Paxs	601.10	Joback Method

dvisc	0.0001666	Paxs	561.04	Joback Method
dvisc	0.0002238	Paxs	520.98	Joback Method
dvisc	0.0003158	Paxs	480.92	Joback Method
dvisc	0.0004743	Paxs	440.87	Joback Method
dvisc	0.0007728	Paxs	400.81	Joback Method
dvisc	0.0014033	Paxs	360.75	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308042&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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