

# 2-[4-(1-Hydroxy-2-methylpropyl)phenyl]propanoic acid, monomethyl

InChI: InChI=1S/C14H20O3/c1-9(2)13(15)12-7-5-11(6-8-12)10(3)14(16)17-4/h5-10,13,15H,1-4H  
InChIKey: JBMWZTVWWRQDEK-UHFFFAOYSA-N

Formula: C14H20O3  
SMILES: COC(=O)C(C)c1ccc(C(O)C(C)C)cc1  
Mol. weight [g/mol]: 236.31

## Physical Properties

Property code	Value	Unit	Source
gf	-208.28	kJ/mol	Joback Method
hf	-520.10	kJ/mol	Joback Method
hfus	21.97	kJ/mol	Joback Method
hvap	74.37	kJ/mol	Joback Method
log10ws	-3.06		Crippen Method
logp	2.652		Crippen Method
mcvol	197.670	ml/mol	McGowan Method
pc	2302.53	kPa	Joback Method
rinpol	1709.00		NIST Webbook
tb	718.53	K	Joback Method
tc	918.85	K	Joback Method
tf	374.46	K	Joback Method
vc	0.737	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	555.43	J/molxK	718.53	Joback Method
cpg	569.41	J/molxK	751.92	Joback Method
cpg	582.53	J/molxK	785.30	Joback Method
cpg	594.81	J/molxK	818.69	Joback Method
cpg	606.27	J/molxK	852.08	Joback Method
cpg	616.94	J/molxK	885.46	Joback Method
cpg	626.84	J/molxK	918.85	Joback Method
dvisc	0.0035231	Paxs	374.46	Joback Method
dvisc	0.0009115	Paxs	431.81	Joback Method

dvisc	0.0003238	Paxs	489.15	Joback Method
dvisc	0.0001429	Paxs	546.50	Joback Method
dvisc	0.0000737	Paxs	603.84	Joback Method
dvisc	0.0000426	Paxs	661.19	Joback Method
dvisc	0.0000269	Paxs	718.53	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R399490&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R399490&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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