

# 3-(4-Methoxyphenyl)propionic acid

<b>Other names:</b>	3-(4-Methoxyphenyl)propanoic acid p-Methoxyhydrocinnamic acid Benzenepropanoic acid, 4-methoxy- 3-(p-Methoxyphenyl)propionic acid NSC 51509 Hydrocinnamic acid, p-methoxy- 4-Methoxybenzenepropanoic acid
<b>Inchi:</b>	InChI=1S/C10H12O3/c1-13-9-5-2-8(3-6-9)4-7-10(11)12/h2-3,5-6H,4,7H2,1H3,(H,11,12)
<b>InchiKey:</b>	FIUFLISGGHNPSM-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O3
<b>SMILES:</b>	COc1ccc(CCC(=O)O)cc1
<b>Mol. weight [g/mol]:</b>	180.20
<b>CAS:</b>	1929-29-9

## Physical Properties

Property code	Value	Unit	Source
gf	-234.64	kJ/mol	Joback Method
hf	-421.70	kJ/mol	Joback Method
hfus	22.18	kJ/mol	Joback Method
hsub	124.50 ± 1.70	kJ/mol	NIST Webbook
hvap	66.63	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.712		Crippen Method
mvol	141.310	ml/mol	McGowan Method
pc	3364.54	kPa	Joback Method
tb	628.33	K	Joback Method
tc	827.77	K	Joback Method
tf	374.38	K	Joback Method
vc	0.530	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.96	J/mol×K	794.53	Joback Method

cpg	381.24	J/mol×K	728.05	Joback Method
cpg	371.50	J/mol×K	694.81	Joback Method
cpg	361.17	J/mol×K	661.57	Joback Method
cpg	350.22	J/mol×K	628.33	Joback Method
cpg	390.39	J/mol×K	761.29	Joback Method
cpg	406.96	J/mol×K	827.77	Joback Method
dvisc	0.0024094	Paxs	374.38	Joback Method
dvisc	0.0000667	Paxs	628.33	Joback Method
dvisc	0.0000978	Paxs	586.00	Joback Method
dvisc	0.0001520	Paxs	543.68	Joback Method
dvisc	0.0002546	Paxs	501.35	Joback Method
dvisc	0.0004691	Paxs	459.03	Joback Method
dvisc	0.0009783	Paxs	416.70	Joback Method
hfust	29.57	kJ/mol	376.10	NIST Webbook
hfust	28.50	kJ/mol	376.90	NIST Webbook
hsubt	122.30 ± 0.30	kJ/mol	349.00	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=C1929299&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1929299&amp;Units=SI</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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>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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