

# 2-(p-Chlorophenyl)-2-methylpropionic acid

<b>Other names:</b>	4-Chloro-«alpha», «alpha»-dimethylphenylacetic acid Benzeneacetic acid, 4-chloro-«alpha», «alpha»-dimethyl- 2-(4-chlorophenyl)-2-methylpropionic acid
<b>Inchi:</b>	InChI=1S/C10H11ClO2/c1-10(2,9(12)13)7-3-5-8(11)6-4-7/h3-6H,1-2H3,(H,12,13)
<b>InchiKey:</b>	SSFDAZXGUKDEAH-UHFFFAOYSA-N
<b>Formula:</b>	C10H11ClO2
<b>SMILES:</b>	CC(C)(C(=O)O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	198.65
<b>CAS:</b>	6258-30-6

## Physical Properties

Property code	Value	Unit	Source
gf	-138.73	kJ/mol	Joback Method
hf	-313.97	kJ/mol	Joback Method
hfus	17.78	kJ/mol	Joback Method
hvap	67.31	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	2.702		Crippen Method
mcvol	147.680	ml/mol	McGowan Method
pc	3360.64	kPa	Joback Method
tb	640.11	K	Joback Method
tc	856.54	K	Joback Method
tf	384.49	K	Joback Method
vc	0.550	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.79	J/molxK	640.11	Joback Method
cpg	364.44	J/molxK	676.18	Joback Method
cpg	374.29	J/molxK	712.25	Joback Method
cpg	383.42	J/molxK	748.32	Joback Method
cpg	391.86	J/molxK	784.40	Joback Method
cpg	399.68	J/molxK	820.47	Joback Method

cpg	406.92	J/mol×K	856.54	Joback Method
dvisc	0.0028724	Paxs	384.49	Joback Method
dvisc	0.0011253	Paxs	427.09	Joback Method
dvisc	0.0005226	Paxs	469.70	Joback Method
dvisc	0.0002757	Paxs	512.30	Joback Method
dvisc	0.0001605	Paxs	554.90	Joback Method
dvisc	0.0001009	Paxs	597.51	Joback Method
dvisc	0.0000675	Paxs	640.11	Joback Method

## Sources

<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=C6258306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6258306&amp;Units=SI</a>
<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>

## 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>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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