

# 4-Cyclohexylphenylacetic acid

<b>Inchi:</b>	InChI=1S/C14H18O2/c15-14(16)10-11-6-8-13(9-7-11)12-4-2-1-3-5-12/h6-9,12H,1-5,10H
<b>InchiKey:</b>	ZHMWKJWMWIWEPJ-UHFFFAOYSA-N
<b>Formula:</b>	C14H18O2
<b>SMILES:</b>	O=C(O)Cc1ccc(C2CCCCC2)cc1
<b>Mol. weight [g/mol]:</b>	218.29
<b>CAS:</b>	35889-00-0

## Physical Properties

Property code	Value	Unit	Source
gf	-71.51	kJ/mol	Joback Method
hf	-317.72	kJ/mol	Joback Method
hfus	23.19	kJ/mol	Joback Method
hvap	73.55	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	3.361		Crippen Method
mcvol	180.940	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinpol	1940.00		NIST Webbook
rinpol	1940.00		NIST Webbook
tb	716.98	K	Joback Method
tc	937.39	K	Joback Method
tf	404.61	K	Joback Method
vc	0.669	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.34	J/molxK	716.98	Joback Method
cpg	534.94	J/molxK	753.72	Joback Method
cpg	549.41	J/molxK	790.45	Joback Method
cpg	562.80	J/molxK	827.19	Joback Method
cpg	575.17	J/molxK	863.92	Joback Method
cpg	586.55	J/molxK	900.66	Joback Method
cpg	597.00	J/molxK	937.39	Joback Method

dvisc	0.0024829	Paxs	404.61	Joback Method
dvisc	0.0008752	Paxs	456.67	Joback Method
dvisc	0.0003819	Paxs	508.73	Joback Method
dvisc	0.0001944	Paxs	560.80	Joback Method
dvisc	0.0001110	Paxs	612.86	Joback Method
dvisc	0.0000692	Paxs	664.92	Joback Method
dvisc	0.0000462	Paxs	716.98	Joback Method

## Sources

<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=C35889000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35889000&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>

## 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>mvol:</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

Latest version available from:

<https://www.chemeo.com/cid/14-661-2/4-Cyclohexylphenylacetic-acid.pdf>

Generated by Cheméo on 2024-04-26 03:36:06.569952791 +0000 UTC m=+16391815.490530103.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.